FORMING A COMPLETE RECORD OF THE PROCEEDINGS OF ALL PUBLIC COMPANIES.

[The MINING JOURNAL is Registered at the General Post Office as a Newspaper, and for Transmission Abroad.]

No. 2514.—Vol. LIII.

LONDON, SATURDAY, OCTOBER 27, 1883.

SUPPLEMENT. SIXPENCE SUPPLEMENT. SIXPENCE

MR. JAMES H. CROFTS, STOCK AND SHARE BROKER AND MINING SHARE DEALER, No. 1, FINCH LANE, CORNHILL, LONDON, E.C. ESTABLISHED 1842.

BUSINESS transacted in all descriptions of MINING Stocks and Shares (British and Foreign), Consols, Banks, Bonds (Foreign and Colonial), Rail-ways, Insurance, Assurance, Telegraph, Tramway, Shipping, Canal, Gas, Water, and Dock Shares, and all Miscellancous Shares. BUSINESS negociated in Stocks and Shares not having a general market

value.

Every Friday a general and reliable List issued (a copy of which will be forwarded on application), containing closing

prices of the week. Minrs Inspected.
Bankers: City Bank, London—South Cornwall Bank, St. Austell.
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RAILWAYS — SPECIAL BUSINESS.— Fortnightly Accounts

JAMES H. CROFTS, 1, FINCH LANE, LONDON. POREIGN BONDS - SPECIAL RUSINESS. - Fortnightly

JAMES H. CROFTS, 1, FINCH LANE, LONDON.

MERICAN AND CANADIAN STOCKS AND SHARES-SPECIAL BUSINESS. Fortnightly Accounts opened on receipt of the usual cover.

JAMES H. CROFTS, 1, FINCH LANE, LONDON.

OLD AND SILVER MINES.—SPECIAL BUSINESS in ALL marketable INDIAN GOLD SHARES, and in California, Callao "Bis," old Coast, Guinea Gold Coast, New Callao, West Callao, Tolima A, Tolima B, La Piata, Rio Tinto, Frontino and Bolivia, Potosi, Chile, Nouveau Monde, Ruby, Nichmond. Victoria.

"SHARES IN THE ABOVE SOLD FOR FORWARD DELIVERY ONE, TWO, OR THEE MONTHS ON DEPOSIT OF TWENTY PER CENT. JAMES H. CROFTS, 1, FINCH LANE, LUNDON.

RON AND COAL SHARES — SPECIAL BUSINESS.

Bilbao, Cardiff and Swannes, Consett, Chillington, Ebbw Vale, Nant-y-Glo,
Newport Abercarn, and Pelsall.

BILARES BOLD for FORWARD DELIVERT, ONE, Two, or THREE MONTHS, on DE-POSIT OF TWENTY PER CENT.

JAMES H. CROFTS, 1, FINCH LANE, LONDON.

ELECTRIC LIGHT SHARES — SPECIAL BUSINESS.

Anglo-American Hammond. Swan.

Brush. Maxim-Weston.

Shares sold for cash, account, or for forward delivery (one, two, or three onths) on deposit of 20 per cent.

JAMES H. CROFTS, 1, FINCH LANE, LONDON.

RAST WHEAL ROSE, OLD SHEPHERDS, MOUNTS BAY,
SPECIAL BUSINESS in the above for cash or account.
For Special Sale, for Forward Delivery, One, Two, or Three Months,
subject to deposit of Twenty Per Cent.—100 East Wheal Rose, 11s. 6d.; 100
Mounts Bay, 5s.; 100 Old Shepherds, 11s. 3d.; 100 Tresavenn, 7s. 6d.; 100 Home
Mines Trust, 11s. 3d.
JAMES H. CROFTS, 1, FINOH LANE, LONDON.
ESTABLISHED 1842.

MR. W. H. BUMPUS, STOCK AND SHARE BROKER, AND MINING SHARE DEALER, 44, THREADNEEDLE STREET, LONDON, EC. ESTABLISHED 1867.

BUBINESS transacted in STOCK EXCHANGE SECURITIES
and MISCELLANEOUS SHARES of every description.
RAILWAYS, BANKS, FOREIGN and COLONIAL BONDS.
TRAMWAYS, TELEGRAPHS, and all the LEADING INVESTMENTS.
Accounts opened for the Fortnightly Settlement

TRAMWAYS, TELEGRAPHS, and all the LEADING INVESTMENTS.

Acocunts opened for the Fortnightly Settlement

A List of Investments tree on application.

Mr. BUMPUS has SPECIAL BUSINESS in the undermentioned:—

100 Alimada, 11s. 45. 55 Frontino, £114s. 50 Pen-yr-Orsedd.

100 Alimada, 11s. 64. 155 60. 150 Great Holway. 45 60 Pen-yr-Orsedd.

100 Coalidation is Gold, 17s 6 100 Coalidation is Gold, 15s. 150 Coarn Camborne. 100 Coasidiated, 2s. 6d. 150 Leadhills, £2; 55 Coptacath. 40 Ruby, £17s. 6d. 150 Nouveau Monde, 2s. 6 100 Trevanance, £2½. 150 Sortridge, 2s. 6d. 150 Locath. 40 Rw Kitty, 38s. 150 West Godolphin, 20s. 50 Trevanance, £2½. 150 East Caradon, 5s. 100 Crass, 12s. 6d. 150 Nouveau Monde, 2s. 6d. 150 West Godolphin, 20s. 150 East Caradon, 5s. 100 Crass, 12s. 6d. 150 Nouveau Monde, 2s. 6d. 150 West Godolphin, 20s. 150 East Caradon, 5s. 100 Parys Cupper. 25 West Godolphin, 20s. 150 East Caradon, 5s. 100 Parys Cupper. 25 Wheal Agar, £14. 25 Panulcillo, £67s. 6d. 160 Where prices are not inserted offers may be made. 160 Mr. Bumpus devotes special attention to these Securities, and is in a position

Mr. Bumpus devotes special attention to these Securities, and is in a te afford reliable information and advice to intending investors and oth

WILLIAM HENRY BUMPUS, SWORN BROKER, OFFICES: 44 THREADNEEDLE STREET, LONDON, E.C. BSTABLISHED 1867.

BRITISH AND FOREIGN MINING OFFICES.

MESSES. PETER WATSON AND CO.. 18, AUSTIN FRIARS, OLD BROAD STREET, LONDON, E.C. BANKERS: THE ALLIANCE BANK (Limited).

MESSES. PETER WATSON AND CO.'S BRITISH AND FOREIGN MONTHLY MINING NEWS—STOCK AND SHARE INVESTMENT NOTES—MINES, MINEBALS, AND METAL MARKETS—SHARE LIST, No. 858, Vol. XVII., for OCTOBER month, is ready, and will be sent to customers on application.

Annual Subscription...... 53. | Single Copy.

M R. A L F R E D E. C O O K E,
DEALER in BRITISH and FOREIGN STOCKS and SHARES
of EVERY DESCRIPTION.
(FROM 76, OLD BROAD STREET)
ESTABLISHED 1853.

9, OLD BROAD STREET, LONDON. MINE SHARES FOR SALE. Mr. ALFRED E. COOKE can SELL the following lots (or any smaller number of shares) to immediate applicants at prices annexed, free of

commission :-

where prices are not inserted, the market price of the day will be taken, or offers may be made:—

Where prices are not inserted, the market price of the day will be taken, or offers may be made:—

30 Calas Bis Gold, 6s. 9

50 Colombian Hydraulic Copper, 3s. 3d. Copper.

50 California Gold, 17s. 100 Now Caradon Copper, 3s. 3d. Copper.

50 California Gold, 17s. 100 Now Caradon Copper, 3s. 3d. 200 Cara Camborne Tin & 5s. 6d. 5s. 20 Organos.
30 Eberhardt Silver.
10 Frongoch Lead.
40 Prince of Wales, 11s 3
25 Goginan Lead.
10 Potosi Gold, 4s.
25 Goginan Lead.
11s 3
50 Port Phillip Gold.
11s.
40 Parya Copper, 2s. 3d.
11s.
40 Parya Copper, 2s. 3d.
11s.
40 Parya Copper, 2s. 3d.
10 Herodisfoot.
25 Ruby, £1½.
25 Ruby, £1½.
26 La Plata Lead. 15s.
10 Roman Gravels Lead, 15s.
10 Leadmills, £2 13s. 9d.
26 15s.
27 EN PER CENT. DEPOSIT.—Many of the above shares can be sold for settlement by arrangement at the end of November or mid-December on payment of 10 per cent. deposit. Shares not found in the above list may be purhased on application.

FORWARD DELIVERY .- MR. ALFRED E. COOKE calls the attention FORWARD DELIVERY.—MR. ALFRED E. COOKE calls the attention of investors to the fact that he now supplies shares for settlement at end of OUTUBER OF NOVEMBER on payment of TEN FER CENT. DEPOSIT.

SOUTH KITTY (St. AGNES).—Shares in this mine are likely to rise 220 to 300 per cent. The present price is only 10s. to 15s. No cheaper speculation has been offered for a long time. Ms. ALFRED E. COOKE can supply FIVE HUNDRED SHARES or any part to early applicants at 12s, per share.

PRICES of every description of STOCKS and SHARES are received continuously throughout the day by TELEGRAPH from the STOCK EXCHANGE. TELEPHONE NUMBER, 1268.

ALFRED E COOKE, 9, OLD BROAD STREET, LONDON. (Opposite the Stock Exchange, with which the offices are in DIRECT TELEGRAPHIC COMMUNICATION.)

R. JAMES

2. CROWN COURT, THREADNEEDLE STREET, LONDON, E.C.

Asia Minor, 12s.
Bratsberg, 22: 15s.
Californian, 13s.
Caliao Bis, 7s.
Carn Camborne, 17s. 6d.
Chile Gold, 15s. 6d.
Chile Gold, 15s. 6d.
Chontales, 5s.
Culorado, 42.
Colorado, 43.
Colorado, 44.
Colorado, 45.
Colorado, 45. South Devon, 10s. Tresavean, 7s. Tolima, A, £5%. Victoria Gold, 12s. 6d. West Caradon, 7s. West Crebor, 5s. West Kitty, £14, BANKERS: LONDON AND WESTMINSTER.

JOHN B. REYNOLDS, STOCK AND SHARE DEALER, 37, WALBROOK, LONDON, E.C. Established Twenty-five Years.

BANKERS: LONDON JOINT-STOCK. Mr. REYNOLDS's remarks will be found on page 1235.

NEW SERIES-DESIRABLE INVESTMENTS. OHN LENN AND CO. (LIMITED),
5, GROCERS' HALL COURT, LONDON, E.O.,
Are issuing a NEW SERIES of CIRCULARS, giving particulars of most
DESIRABLE INVESTMENTS.
Should be read by every Investor Post free on application.

SPECIAL BUSINESS in EAST ROSE and OLD SHEPHERDS Mines shares.

MESSRS. ENDEAN AND CO., STOCK AND SHARE DEALBRS. 85, GRACECHURCH STREET, LONDON, E.C. ESTABLISHED 1861. BANKERS: LONDON AND WESTMINSTER, Lothbury, E.C.

JOHN SHARE AND MINING SHARE DEALER, 38, CORNHILL, LONDON, E.O. ESTABLISHED 1860.

BANKERS: LONDON and WESTMINSTER, Lothbury, E.C.

MESSRS. PENNINGTON AND CO., SWORN BROKERS AND
SHARE DEALERS, 13, MODRGATE STREET, LONDON, E.C.
Have FOR SALE the undermentionedgor part, per share net:—
30 Bratsberg.
20 Leadhills.
80 Old Shepherds, 12s.
100 East Wh. Rose, 10s 6
50 Ruby, £1 7s.
25 United Mexican,
50 tiome Mines Trust, 10 Roman Gravels.
11s. 6d.
250 Sentein.
250 Wheal Kitty.

BUSINESS in all DESCRIPTIONS of STOCKS, MINING and other SHARES, ESTABLISHED 1869—BANKERS: ALLIANCE (Limited).

ABBOTT AND CO., STOCK AND SHARE DEALERS,

110, LONDON WALL, E.C.,

Have FOR SALE the following stares FREE of Commission:—

40 Caliao Bis, 6s. 9d.,

42 East Wheal Rose,

100 Potosi, 4s. 3d,

11s. 6d.,

30 Emms, 32s. 6d.,

30 Home Truse, 11s. 6d.,

30 Home Truse, 11s. 6d.,

30 Lovala, 5s.,

100 Enver, 2s.,

30 Lovala, 5s.,

100 Mouveau Monde, 5s. 6

40 Caliao Bis, 6a, 9d, 75 California, 17s. 6d, 50 Chile Gold, 15s. 20 Colorado, £2\(\psi_s\) 30 Devala, 5s. 100 Denver, 2s. 50 Eberhardt, 6s,

FERDINAND R. KIRK, STOCKBROKER, 5, BIRCHIN LANE, LONDON, E.C.

Fortnightly Accounts opened in all Stock Exchange Securities on receipt of

Fortightly Accounts opened 14 all Stock Bashards.

be usual cover

SPECIAL BUSINESS in the following or any part:

50 Akankoo, 5s.

40 Almada, 1ls.

40 Frongoch, 13s.

50 Bertsberg, 22%.

50 Geginau, 7s. 6d.

50 Hortsberg, 22%.

50 Goginau, 7s. 6d.

50 Callfornia Gold, 18s.

50 Lean Mine Mins. Trest., 11s.

50 Call Camborne,

50 Chontales, 5s.

50 Leadhills, £2 13s. 9d.

50 Leadhills, £2 13s. 9d.

50 Leaven United, 1ls.

50 Devon United, 1ls.

50 New Kitty, £2.

50 Wheal Coates, 5s.

50 Wheal Crebor, £2%.

THE "DIFFERENTIAL" (DAVEY'S PATENT),

DRAINING MINES, WATER SUPPLY OF TOWNS, IRRIGATION SUPPLYING DOCKS, PUMPING SEWAGE, and GENERAL PUMPING PURPOSES.

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HATHORN, DAVEY, and Co. have Patterns of "Differential" Engines of all sizes, from 5 to 500-horse power, and have facilities for supplying very powerful Engines and Pumps at a short notice.

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SPARE CASH: WHAT SHALL I DO WITH IT ?—A New Work

for the Guidance of Investors.

to the Guidance of Investors.

"Invaluable to those who cannot attend the markets."

ESTABLISHED 1852. M. R. HENRY J. TALLENTIRE
has BUSINESS in all MINING SHARES for each or payment one or o months on.

SOUTH PHENIX AND CARADON (Limited) specially recommended.

Il particulars and reports upon application.

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A B B O T T , P A G E , N E I L , A N D STOCKBROKERS, 42, POULTRY, LONDON, E.C.

MR. J. GRANT MACLEAN, SHAREBROKER AND IRONBROKER, STIRLING, N.B., Refers to his Share Market Report on page 123; of to-day's Journal.

R. ALEXANDER DAVIDSON, STOCK AND SHARE DEALER, LEADENHALL HOUSE, 101, LEADENHALL STREET, LONDON, E.C.

CHARLES J. SIMS, GENERAL MINING AGENT, MINING ADVISER, AND SHARE DEALER,
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Over Twenty Years' Experience.

ESTABLISHED 1866. THIRTEEN YEARS IN CORNWALL. Samuel James, Stock Broker and Mining Share Dealer, 14, angel court, London, E.O. Member of the Redrath Mining Exchange.

Those who wish to buy or sell mining shares should consult Mr. James. Mr. J. devotes his entire attention to home and foreign mines, and places his special information at the disposal of his clients. This mining offers undoubted advantages for quick returns no one can deny. Look at the enormous same of money paid in dividends by home and foreign mines. A large manker of wealthy paid in dividends by home and foreign mines. A large manker of wealthy families owe their precent proud positions to adventuring in LEGITIMATE MINES. With a better price for metals many of the smaller priced shares would immediately advance some hundreds per cent. Mines impected and reported upon by thoroughly competent agents.

There are many mines worth attention, as proceedings of recent shareholders' meetings prove beyond doubt. During the last 40 years there has no such opportunity presented itself as the present for investment in British mines, Metals are certain to advance. In well-informed circles no doubt is entertained on this point. Buyers must not further delay orders.

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See Selected List published by S. JAMES, 14, Angel-court, London, E.C.

SPECIAL BUSINESS in the following or part:—
20 Beaford United, 32s 6
23 Blue Hilis, 7s, 6d.
40 North Busy, 4s, 3d.
5 Carn Bres, £4%.
50 Collacombe Cons., 10s.
50 Cook's Kitchen, £17.
50 Collacombe Cons., 10s.
50 Collacombe Cons., 10s.
50 Collacombe Cons., 10s.
50 Devon Fradship., 3e 6
50 Devon Fradship., 3e 6
50 Devon Fradship., 3e 6
50 Devon United, 11s 3d
50 East Blue Hills, 4s, 6d
50 East Broath, £18s.
50 East Broath, £18s.
50 East Caradon, 7s, 6d., c.p.
51 Great Laxey, £15%.
52 Gunnislake Clitters, £11s, 20 West Caradon, 6s.
£11s, 9d.
50 Great Holway.
51 Great Holway.
52 Great Holway.
53 Great Holway.
54 Great Holway.
55 Great Holway.
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57 Great Holway.
58 West Caradon, 6s.
59 Callogodo, 7s, 6d., p.
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58 West Caradon, 6s.
59 Condon Great Holway.
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52 Great Holway.
53 Mounts Bay Con., 2s 8
50 Langford, 2s. 6d.
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51 Great Holway.
52 Great Holway.
53 Mounts Bay Con., 2s 8
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S. James is a Buyer or Seller of all home and foreign mining shares at close 8. JAMES IS B DRIVET OF THE STATE OF THE STA

The Plangelynin Lead, Blende, Copper, and Graphite Mining Company

To be Incorporated with Limited Liability under the Companies Acts, 1862 to 1880.

CAPITAL £20,000, IN 20,000 SHARES OF £1 EACH.

PROVISIONAL DIRECTORS.

OWEN EVANS, Bettws-y-Coed, North Wales.

THOMAS WILLIAMS, Llanrwst, North Wales.

RICHARD GIBSON THRELFALL, 4, East Cliff, Preston, Lancashire.

FREDERICK FIELDER, Whitefield House, Ashton-on-Mersey.

JOSEPH MITCHELL RILEY, Burnage, Manchester, Managing Director.

(With power to add to their number).

BANKERS. THE ADELPHI BANK (LIMITED), Brown Street, Manchester.

NORTH AND SOUTH WALES BANK (LIMITED), Llanrwst, North Wales.

Solicitors—Messrs. BRETT AND CRAVEN, Kennedy Street, Manchester.

AUDITORS—EDWIN COLLIER, BEARDSALL, and CO., 44, Brown Street, Manchester.

SECRETARY (pro tem.)—Mr. THOMAS WILLIAMS, Station Road, Llanrwst. OFFICES-44, BROWN STREET, MANCHESTER.

ABRIDGED PROSPECTUS.

The shares will be divided into 10,000 71 per cent. preference (A)

shares and 10,000 ordinary (B) shares.

Payments in respect of the "A" and "B" shares will be as follows: -5s. per share upon application, 5s. per share upon allotment, 5s. per share in three months after allotment, and the balance

ment, 5s. per share in three months after allotment, and the balance of 5s. per share in six months after allotment.

The "A" shares will receive a cumulative preferential dividend of 7½ per cent. per annum before any dividend will be paid to the holders of the "B" shares.

After payment of such cumulative preferential dividend the profits of the company will be applicable in payment of dividend on the "B" shares until the holders of such shares shall have received a dividend of 7½ per centum, and any further dividend will be paid pro rata upon the "A" and "B" shares.

3,500 "B" shares will be appropriated to the vendors as fully-paid up shares, and 500 "A" shares will be appropriated to the aforesaid Joseph Mitchell Riley as fully-paid up shares, such shares respectively being in part payment of the purchase money.

The balance of the purchase money—10001.—is payable by two equal instalments of 5001. each, the first to be made on delivery of the leases, and the second at nine months from that date.

PROSPECTUS.

This company is proposed to be formed for the purpose of acquiring, developing, and working extensive mining setts and lodes in the parish of Llangelynin, in the county of Carnarvon, North Wales, about midway between Conway and Llanrwst.

The only contract entered into on behalf of the company is one dated Oct. 19, 1883, made between Owen Evans, Thomas Williams, Griffith Evans, Joseph Mitchell Riley, Alexander Ferguson, Evan Evans, Benjamin Evans, and Thomas Evans, of the one part, and Richard Gibson Threlfall on behalf of the company of the other part. This contract, and copies of the take-notes and the proposed Memorandum and Articles of Association, can be seen at the offices of the company, 44, Brown-street, Manchester.

Copies of the reports of Messrs. Higson and Messrs. Johnson, Matthey, and Co. (assayers to the Bank of England), Dr. Burghardt, of Owen's College, Manchester, and Capt. Borlase, can also be seen at the offices of the company.

If no allotment be made the deposit will be returned in full, but when a partial allotment is made the surplus deposit will be applied towards the amount payable on allotment.

Prospectuses and forms of application for shares, can be obtained from the bankers, auditors, and secretary.—October, 1883.

THE TIN DEPOSITS OF DAKOTA

THE TIN DEPOSITS OF DAKOTA.

Although it may be some years before the United States becomes independent of other countries for her supply of tin, the discoveries of the ores of that metal which have been from time to time announced leave no doubt that ere long tin mines may be opened which will yield results of which capitalists, whether British or American, will have no cause to complain. The discovery of tinstone in the Black Hills of Dakota, which although first announced some five or six years since has hitherto received little attention, forms the subject of an interesting paper by Prof. W. P. Blake, F.G.S., published in the New York Engineering and Mining Journal. The sample forwarded to the professor in June was an irregular fragment weighing about ½ lb., evidently broken from a larger mass. It was dark coloured, very heavy, and had no appearance of crystallisation, and did not resemble any of the ores of tin which had come under his observation. It had, however, the hardness of cassiterite, and the characteristic powder or streak. Under the blow-pipe flame, upon charcoal, an abundance of globules of white malleable tin left no reason to question that the ore was mainly the oxide of tin, the mineral species known as cassiterite, which, when pure, contains over 75 per cent. of metallic tin. The fragments were more or less mixed with a felspathic gangue or veinstone, and some of them were incrusted with a bright green-coloured coating, which resembled the crusts of emerald nickel, but which before the blowpipe were found to consist mainly of copper carbonate. A quantitative assay of an average sample showed the presence of 40 per cent. of metallic tin. Other samples were telegraphed for, and, on their arrival, he found in addition to the massive cassiterite, some brown and black ores, having the appearance of columbite, of ilmenite, and of wolfram, and also a fragment of spodumene.

The discovery is in the central portion of the Black Hills in Pennington County, about 20 miles south-west of Rapid City, two

a fragment of spodumene.

The discovery is in the central portion of the Black Hills in Pennington County, about 20 miles south-west of Rapid City, two miles from Harney City, and a few miles east of Harney Peak on the backbone or dividing range of the region. It is upon a claim known as the Etta, on a mountain which I have named Tin Mountain, and is at an elevation of about 4300 ft. above the sea. Harney Peak, the highest summit of the Black Hills, has an altitude of 7403 ft. according to the survey of Messrs. Newton and Jenney. This Tin Mountain is in the midst of a very rugged country, and is drained by the tributaries of Battle Creek, one of the largest streams of the hills. But although the peaks and ridges are rugged the intervening spaces are comparatively smooth and open, and permit the construction of roads at small expense. The wagon-road from Harney extends up the creek to the cabins on the claim at the foot of the peak of the mountain. There is a thick growth of pine timber over the whole region, and there is an abundance of pure water in springs and in running brooks. The rocks, the vegetation of the valleys, and the climate, all remind one of the mountainous parts of Northern New England.

Valleys, and the climate, all remind one of the mountainous parts of Morthern New England.

The Black Hills, rising like an island in the broad expanse of the plains, are everywhere surrounded by the outcropping edges of the sedimentary formation from the base of the silurian upward to the tertiary so far as they exist at the west. These formations dip gently sway on all sides from the central nucleus of more ancient rocks, which rise up in a multitude of irregular peaks and broken ridges with a general northerly and southerly trend. These rocks consist chiefly of fine-grained mica-schist and micaceous and stones, traversed by veins of quartz, which are often auriferous, although the quartz by veins of quarts, which are often auriterous, although the quartz has that peculiar glassy, barren look which is seen in the quartz veins of New England, and appears utterly unpromising for the precious metal. The slates in some portions are highly charged with small brown garnets, forming perhaps 20 per cent. of the mass, so that the rocks may be said to be garnet slates rather than mica slates. There is also an abundant development of staurolites and of staurolite slates.

Toward the central portion of the area of mica schists granitic intrusions make their appearance, and rise in rugged peaks in the midst of the slates. These granitic masses are remarkable for the extreme coarseness of their crystallisation, the constituent minerals extreme coarseness of their crystalisation, the constituent minerals being unusually large, and separately segregated. Large masses of pure quartz are found in one place, and masses of felspar in another, and the mica often accumulated together, instead of being regularly disseminated through the mass. It also occurs in large masses or crystals, affording sheets broad enough for catting into commercial sizes. This occurrence of mica has led to considerable prospecting of the region for sizes and supersupulation have been leasted. ing of the region for mica, and numerous claims have been located and worked. This quarrying for mica on the Etta claim brought

the heavy black tin ore to notice, for Tin Mountain where it occurs is one of these intruded masses of coarse granite. The word intruded is here used considerably, for the phenomena fully justify this conclusion as to the origin of the granite. The surrounding schists are not greatly metamorphosed from their original condition, and the transition from schist to coarse granite is sudden. These micaceous and garnetiferous schists of the Black Hills have been subjected to an enormous amount of crushing and compression, by which they have been folded and crumpled to a remarkable degree, The longer axes of these folds and wrinkles, instead of being approximately horizontal, as is usual, are, on the contrary, nearly vertical, or are highly inclined. The troughs of the strata thus stand nearly on end. It results from this folding and upheaval that the structure or grain of the rocks, so far as it is imparted by the folding, is nearly vertical, and at the same time is convoluted, and in consequence the formations, in wearing away by erosion and disintegration and decay, are left with a peculiarly uneven surface, presenting a succession of pointed hills and peaks rather than a series of nearly parallel ridges. This folded structure is the basis of the peculiar topography of the country. It is the cause of it. Even the quartz veins partake of the folding, as may be seen by their serpentlike outcrops, and become columnar masses extending to great depths, while their internal extension appears to be comparatively limited. The gold-bearing rocks of the Deadwood region have a similar structure, and the paying portions are controlled by or follow the pitch of the folds, which pitch or inclination is not so steep as at the tin region. The granite intrusions coming to the surface form bosses or knobs, and Tin Mountain has this form, being nearly surrounded by the schistose rocks.

The cassiterite occurs near the top of the granite mountain, and apparently occupies a central or core-like position. The massive variety is in close

while a granular form is disseminated in a massive micaceous albitic rock or greisen, which traverses the coarse granite in the form of irregular veins or bunches. There are thus two distinct forms of occurrence of the tin ore at Tin Mountain—Massive in bunches, with spodumene, felspar, and quartz, and granular, disseminated in a micaceous aggregate or greisen. In the massive form the ore is associated chiefly with the spodumene, which here attains an unusual size. It is not only in direct contact with the spodumene, but actually penetrates it, so that it appears to partly replace portions of the crystals. One of the specimens, weighing 1½ lb., is two-thirds tinstone and the remainder spodumene. Another specimen exhibits tinstone traversing the spodumene irregularly. The granuthirds tinstone and the remainder spodumene. Another specimen exhibits tinstone traversing the spodumene irregularly. The granular or disseminated form of the tin ore appears to be the most abundant and constant. The micaceous aggregate in which it occurs consists of a mixture of small scales of mica and of albite, also in small or granular masses, or in plates radially aggregated. The grains often occur irregularly disseminated, sometimes at the base of an aggregation of mica crystals, at the junction with the whitespar, and again it is found more sparingly in the midst of the mica crystals in thin, flattened, and transparent plates.

The extent and quantity of the greisen rock and the percentage

The extent and quantity of the greisen rock and the percentage of tinstone in it are the two most important questions in an economical and mining point of view. As regards the first the chief evidence at prepart in the automatical and mining point of view. are extensive and decidedly encouraging. Without regarding the possible occurrence of massive ere in bunches, and confining the estimate to the greisen rock alone, it may be said to crop at intervals over a length of 100 ft. by from 70 to 100 ft. in breadth. These outcorps are irregular in form, and vary from 2 to 20 ft. or more in width. There are four chief outcrops, all showing tin ore. Very little work has wet here done to over no these outcomes of greisen. width. There are four chief outcrops, all showing tin ore. Very little work has yet been done to open up these outcrops of greisen. An open cut some 25 ft. long and about 15 ft. deep at the face is the largest excavation. It cuts through the pit which was sunk at first for mica, and followed the heavy black ore downward. In cutting this opening a considerable quantity of the greisen rock has been blasted out, showing specks and grains of tin ore throughout its substance. This griesen should be regarded as the chief and most reliable ore, though no doubt many masses and branches of the massive cassiterite will be developed, apart from the greisen when the ground is opened. The greisen is favourably placed for cheap mining. The surface of the hill slopes off from it each way, permitting it to be attacked by cuts or open quarry in several directions. It is easily drilled for blasting, and the most effective and economical method of getting it out. In quantity, will be to work it in open quarry. of getting it out. in quantity, will be to work it in open quarry, putting in heavy blasts, and then cracking up the large blocks by smaller holes, letting the fragments roll to the base of the hill, where,

by means of a suitable barrier of pine logs, forming a rude ore-bin, they may accumulate and be delivered as needed through chutes into cars below, thus avoiding the expense of lifting and handling. The greisen rock can be crushed with greater ease, either under stamps or by rolls. The tin ore separates easily from the mica and spar, and, after crushing, can be washed out by the ordinary methods of panning or concentration. This was demonstrated by many trials in panning. There is very little loss. The ore settles to the bottom, and deports itself very much as gold does in panning out. The ordinary concentrating apparatus will handle the tinstone effectively. Water is abundant at all seasons, except probably for a time in the depth of winter, when the snows do not melt fast enough to fill the rivulets.

depth of winter, when the snows do not melt fast enough to fill the rivulets.

Ordinary hand samples of the greisen, taken from the large masses broken from the opencut, and rejecting the richer portions, will yield from 5 to 10 per cent. of clean tinstone, or black tin, of high grade. Some masses will yield from 10 to 50 per cent. by weight: but the general run of the ore is about 6 per cent. excluding the poorer portions. The general average of samples broken from all parts of the outcrops at the surface is about 3 per cent. It is certain that there will be no difficulty, when the ground is opened by blasting, in selecting the rock so that an average of at least 3 per cent. can be maintained, if this limit shall be found desirable. But it is probable that rock containing only 1 per cent. may be profitably worked if the mill is properly placed and equipped. The percentage of tinstone or black tin, in the greisen, it will be seen, compares favourably with the percentage of tinstone in the ores of other and well-known tin regions. In Cornwall, for example, where the statistics of tin mining and smelting are carefully kept under the direction of the Government, it is found that the average percentage of black tin in the whole mass of tin ore as mined and stamped, or prepared for dressing, is not over 45 lbs. to the ton, or 2 per cent. So, also, at Altenberg, Saxony, the smelting ore, or black tin, is 2 per cent. of the whole mass. But a much lower percentage than this has been worked. According to Phillips and Darlington it did not exceed 17½ lbs. of black tin to the ton at one of the largest mines in West Cornwall in 1855; this being equivalent to 0.86 per cent. The same authority, in describing the effectiveness of the ordinary stamp-mill in crushing tin ores, gives the following figures:—The average number of stamps in use at the Polberro Mines was 70, and the number of tons crushed in the course of five years was 106,249 tons. This quantity averaged 20 1-10 lbs., or 0.89 per cent. of merchantable black tin pe

THE COAL RESOURCES OF QUEENSLAND-No. II.

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In proceeding to notice the various coal deposits of Queensland, the Rev. J. E. Tenison-Woods commences with the Ipswich basin, remarking that the whole of the interior between the coast at Moreton Bay and the dividing range consists of colitic coal measures lying unconformably upon highly inclined palæozoic rocks, and covered by volcanic rocks in a few places, and by eclian sandstones in others. Moreton Bay itself, with much of the low-lying shores and mangrove islands, consist principally of alluvial deposits brought down in the course of ages by the many streams which here empty upon the coast. The deposits thus accumulated are enormous, and they have modified in a remarkable degree the geography of the coast; but that these strata of alluvium rest principally on the coal there can be no doubt. At Cape Moreton the headland shows a good section of the coalbearing sandstones, having the usual dip of about 14°. The coal is met with in many places around Moreton Bay, and at a great number of localities inland. It is not improbable that the whole of this area will be found to contain coal, and being so close to the sea must have hereafter an immense influence on the commerce of the country. At Ipswich, on the Bremer river, a little west of its junction with the Brisbane river, about 24 miles from Brisbane, the outcrops of seams of coal are numerous and rich, and this locality has been in consequence the principal centre of the coal mining operations from an early period in the history of the colony. The seams lie on each side of the river valley, and at no great distance from the bed of the stream. They have been disturbed by a few faults, though the downward or upward shifting is never more than a few feet. There is also a volcanic dyke and an outflow of doleritic lava which seems to mark a clear line of division between the coal varies somewhat in particular seams and at certain collieries, it has a generally uniform character; it is a bright bituminous coal, with veins black smoke. The percentage of ash is about an average of 10, some-times as low as 6; it is usually brittle, and breaks into cubical masses. As a general rule it cokes well, and is much esteemed both for gas and steam, being largely used for both purposes in the colony. The collieries which have the principal value and interest may be divided into two groups—those on the north and those on the south bank of the Bremer river.

bank of the Bremer river.

The Watertown Colliery is being worked by two or three shafts all on the north side of the Bremer, and very close to its banks, and where it is navigable for small craft. There is a shaft upon the Garden seam which is about 7 ft. thick, and crops out upon the surface; it has a dip of usually 1 in 5, south 15 to 20° east. The coal has a short fracture, breaks into small cubes, soils the fingers, and is full of bright bituminous streaks. Since the opening of this mine about 150,000 tons of coal have been raised from different seams, all of which have been used for steam purposes. Of the coal from this mine Mr.A. C. Gregory, Government Geologist, late Surveyor-General, reports—"The coal is a fairly hard coal, cokes well, and is a good steam coal. The following is the analysis:—Fixed carbon, 62; volatile hydrocarbons, 25·2; ash, 12·8." Above the seam there is about 4½ ft. of splendid fire-clay, which will no doubt be utilised in the course of time.

course of time.

The seams connected with the Watertown coal field are the Edina, Eclipse, Tivoli, and Old Tivoli, which will be referred to presently. The Bell seam, which is about a mile from the Garden seam, and belonging to the same proprietor (Mr. Moffatt), is about 3½ ft. thick. It seems a more compact coal than the last, and is a first-class coal for steam, gas, and coking; it is extremely good coal, with scarcely any partings in the seam. As far as the drive has gone, which is about 30 yards, the coal is rapidly improving. On this property there is a large coking kiln which has been in operation some eight years, and during which some 4000 or 5000 tons of coke have been turned out. The coke is made from the very fine slack and dust; it is of out. The coke is made from the very fine slack and dust; it is of splendid quality, and is exported to Rockhampton, Maryborough, and even Melbourne to the iron foundries; it sells in Brisbane at and even Melbourne to the iron foundries; it sens in plastage about 11. 17s. 6d. per ton. The kilns are about half a mile away from the Rell seam on an old drive which is not now worked, as the coal was not found so good for coking as that obtained from the newer

The Rossend Mine (Lindsay's) adjoins this property; it is worked by one shaft to the extent of about 20 tons daily on what is supposed The Rossend anne (Lincoln Paperson State Constant) by one shaft to the extent of about 20 tons daily on what is supposed to be the Bell seam. The proprietor has got the railway contract this year for the supply of the southern and western line at 8s. per ton; he derives his coal, however, from a seam on the south side of the river. The Tivoli Mine (Gulland's), which, according to Mr. Gregory, is a mine on the outcrop of the upper seam, is a mass of coal some 5 or 6 ft. thick; it is bright and bituminous, though brittle, and like most of the coal hereabouts breaks when much handled into small cubical pieces; it makes an excellent coke. Mr. Gregory's analysis gives specific gravity 1.35; volatile hydrocarbons, 27; fixed carbon, 66; ash 7 per cent.

The Tivoli was until lately extensively worked, as its proprietor had the railway contract, and was able by a short tramway with a steep incline and shoot to load all the lighters on the river. On the Tivoli Mine there is one shaft and three seams, and at present it turns out about 50 tons daily. The Eclipse Mine works on one seam of the old or original Tivoli, and turns out about 20 tons a day. One very small mine may be added to the above enumeration of those on the north side of the river; this is the Eastwood Mine; but at present

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tcan scarcely be said to be working, as it only turns out some 3 or 4 tons daily. The seam is about 7 ft, thick, but there are several thin bands of shale all having a dip of 7° to the south-east. The coal is bright and bituminous, but very brittle.

Without entering more into detail with regard to the collieries on the north side of the Bremer, it may be stated generally that there are probably five different seams at present worked. These are—1, foarden coal; 2, Edina coal; 3, Tivoli; 4, Old Tivoli; 5, Bell coal. No geological survey has been made in detail, and, therefore, no data can be given as to the distances of these seams from one another. The faults appear to be few and slight. The coal of these various seams is of a uniform quality; it is easily ignited, burns freely, and the amount of fixed carbon varies but little. The average of many different analyses gives fixed carbon, 60; volatile hydrocarbons, 28; ash, 8; water, 1½ per cent. Practically it seems as if the supply was unlimited, and all the conditions favour its being brought to market at a cheap rate. The collieries are all less than a mile from a navigable river. The dip of the seams is slight, so that they are all worked by tunnels, thus enabling the coal to be brought to grass at a small expense. The thickness of the seams is just such as will be profitable without requiring that expensive timbering which very thick seams demand. There is no water to contend with, and finally the slack coal can be all utilised for coke. It may be added that the coal has been extensively used for steam and gas purposes, and testimonials are before me from a large number of masters and engineers of steam vessels, all speaking highly of the fuel, and some preferring it to any other.

On the south side of the river there are many workings on seams

monials are before me from a large number of masters and engineers of steam vessels, all speaking highly of the fuel, and some preferring it to any other.

On the south side of the river there are many workings on seams which appear to be identical with those of the north; but nothing certain on this point can be alleged, as no geological survey has been made. There is a fault in the valley of the river and a volcanic dyke. There is an undulating tract of basalt, having a length of four miles south-west from the Bremer river, and a breadth of two miles from Bundanba Creek to the boundary of the town of Ipswich. The carboniferous strata pass under the outflow, and they are sometimes considerably distorted for a short distance. The basalt is a dolerite, with olivine, magnetite, and microliths of felspar. Formerly the main supply of Ipswich coal was from the Redbank coal seam, about eight miles east of Ipswich. The seam is nearly horizontal, with a slight southerly dip, from 3 to 6 ft. thick, and several bands of shale. The coal is brittle. At the Six Mile Creek, on the Ipswich road, says Mr. Gregory, there is a disturbance in the coal strata, the seams cropping out at an angle of 30 to 40°. This, however, is only local, and the general disposition is nearly horizontal until Bundanba Creek is reached, where there is an anticlinal which brings the coal to the surface with a northern and southerly dip. At this point the seam was worked; a strong coal in a seam of 6 ft. width, from 4 to 5 ft. of which were available. To the south the seam dips again for about a mile according to Mr. Gregory's survey; it then rises again at an angle of 30, the outcrop crossing the road on section 252, showing again 100 yards further south in a horizontal position with a thickness of 6 ft., the outcrop on the face of the hill for a quarter of a mile being very convenient to the railway line. About a mile south and west of this outcrop a fine seam of coal is worked by Mr. Thomas at Aberdare; it is 8 to 10 ft. thick, but giving about 5 f

west of this outcrop a fine seam of coal is worked by Mr. Thomas at Aberdare; it is 8 to 10 ft. thick, but giving about 5 ft. of workable coal, excellent for steam purposes; the percentage of fixed carbon, volatile hydrocarbons, and ash being on an average respectively 63, 30, and 10; it cokes fairly. The output from this mine is about 3000 tons a month, employing 60 miners. This colliery supplies some Government contracts, the British India Mail Company, the Melbourne Steamship Company, besides local consumption.

At Bundanba there is a colliery worked by a pit (New Chum shaft) the property of Mr. Gulland. The shaft is about 220 ft. deep, tapping two seams, the lower one of which only is worked. The latter shows in all about 27 ft. of carbonaceous matter; but of this 4 ft. to 4 ft. 8 in. is good clean coal without any partings or shale. The dip is about 1 in 9 a little east of south. About 120 tons are daily produced from this mine. It is a good, firm, shining coal, with much mother-of-coal in the partings, yet it does not soil the fingers as much as other coals on this field; it is entirely sold for steam purposes with the exception of the slack, which finds a ready market for smiths work. The shaft has been working about 11 months. The Braeside shaft is a mine of Mr. Lindsay's, rather over a mile from the New Chum. The workings are a drive along the seam, which is 3 ft. thick. The coal is very similar to the last. The drive is 280 yards long, and is provided with a tram, on which 30 tons per diem are raised. There is another shaft close by 60 yards deep on a second seam of a superior coal; of this 20 tons are raised daily. About two miles north-west of the Old Tivoli Mine a large coal seam is exposed on the bank of the Brisbane river just above the Rocky crossing; this is a very thick seam, but full of bands of shale, extending in all to 30 ft. Owing to the existence of better seams in the neighbourhood it is not worked, but no doubt in the course of time it will be better explored.

PRESENTATION OF DIAMOND TIARA TO LADY ALISON .- An ap presentation of plantons like to the gift by the citizens of Glasgow of a sword of honour to their distinguished fellow-citizen, Lieut.-Gen. Sir Archibald Alison, K.C.B., "in tangible recognition of gallant services to his Queen and country," was the presentation to his lady of a magnificent diamond tiara; Bailie Wilson in a neat speech, remarking that the citizens desired that Lady Alison should share in her backers, it is to a good to the back shared many times in his trials. marking that the citizens desired that Lady Alison should share in her husband's joy, as, no doubt, she had shared many times in his trials and sorrows. It was the more gratifying that the beautiful specimen of the jeweller's art was supplied by a Glasgow house—Messrs. R. and W. Sorley, of Buchanan-street. The tiara, which has been generally admired, is of unique and chaste design, consisting of three rows of brilliants of the purest lustre, and was selected by Lady Alison from 30 specimens submitted for her choice. The tiara is enclosed in a pale blue velvet case, on which is a gold plate bearing the inscription:—"Presented to Lady Alison by the citizens of Glasgow on the occasion of her husband, Lieut.-Gen. Sir Archibd. Alison, Bart., K.C.B., being presented with a Sword of Honour in recognition of distinguished services to his country, 18th October, 1883." Her ladyship asknowledged the presentation in appropriate terms, and the acknowledgment was received with the greatest cordiality.

The Royal Society of Victoria has elected Mr. Hyde Clarke a corresponding member, as he was already of the Royal Society of New South Wales. He has also received the First Class of the Nishan-i-Imtiaz, or Order of Merit from the Sultan.

12,500 POUNDS BULLION PER DAY FROM A 30-TON SMELTER.—
The copper smelter known as the Old Globe, now owned and operated by the old Dominion Company, at Globe, Arizona, has probably made the most remarkable record as to product of any smelter ever run. It was started up some 10 months ago, and has been running ever since, except occasional delays for want of coke. In exact figures, 226 days' run produced 2,824,200 lbs. bullion—an average of say, 12,500 lbs. per day, running some 98 per cent. Though only of, say, 12,500 lbs, per day, running some 98 per cent. Though only rated as a 30-ton smolter it has handled regularly over 40 tons of ore per day. This is one of the Paoific copper smelters made by Rankin, Brayton, and Co., of this city, and is another assurance, in addition to the many already given, of the positive and certain results attained by this system of smelting, and its great value, present and prospective, to our general mining interests.

NOTE.—The Globe Bilver Belt, under data of Sept. 8, 1883, says the "Old Dominion" Rankin and Brayton's smelter is pouring out copper bullion at a very lively rate, handling some 40 tons of ore per day, exclusive of flux, with a 30-ton smelter; giving a clean sing and yielding upwards of 7 tons per day of high-grade bullion.

Sun Francisco Mining Exchange, U.S.A. of, say, 12,500 lbs, per day, running some 98

high-grade bullion.
— San Francisco Mining Exchange, U.S.A.

KIMBERLEY DIAMOND MINE.—In another column a very complete answer to the article in a local newspaper, referred to in the Mining Journal of Oct. 6, is given by Mr. T. C. Kitto, and will be interesting from the sound practical hints which it contains to all connected with the diamond mining industry of South Africa. Mr. Kitto's reputation is too well established for any such scurrilous attacks to affect, and he raight almost be congratulated upon the factors which was afforded. favourable opportunity which the Kimberley article has afforded him of showing how exactly his opinion of 1879 has been verified by facts subsequently made manifest. It is shown that to put the mine in good order will now cost about 1,500,000%, whilst when

Mr. Kitto reported to the Government all the necessary work could have been done for 800,000l. And the 80 or 90 per cent. extra outlay now demanded by no means represents the entire loss to Kimberley diamond miners and South Africa generally, for when the 800,000l. was declared to be necessary the mines were in such a condition—diamonds commanding a high price—that the requisite levy would scarcely have been felt, whits at present the stones are, owing to the lamentable state of the mine, more difficult to obtain, and scarcely saleable at any price when they have been obtained. The past and present condition of the Kimberley Mine will certainly increase the confidence of capitalists in Mr. Kitto's opinion as a practical miner.

PROVINCIAL STOCK AND SHARE MARKETS.

PROVINCIAL STOCK AND SHARE MARKETS.

CORNISH MINE SHARE MARKET.—Mr. S. J. DAVEY, mine share-dealer, Redruth (Oct. 25), writes:—We have had a very dull market this week at declining prices, and it has been difficult to find buyers of several mines. To-day there is scarcely anything doing, but Killifreths are rather firmer. Subjoined are the closing quotations:—Camborne Yean, ½ to ½: Carn Bren, 3½ to 4: Cook's Kitchen, 14 to 16; Dol-coath, 64 to 644; East Pool, 39½ to 40; Killifreth, 1½ to 1½; New Cook's Kitchen, 2 to 3: New Kitty, 13½ to 2; Penhalls, ½ to 36; Pedn-an-dren, ½ to ½; South Condurrow, 8½ to 8½; Suth Penstruthal, ½½ to 1½; South Crofty, 4 to 5; South Frances, 8 to 8½; Tincroft, 6½ to 7; West Basset, 3½ to 4; West Frances, 5 to 5½; West Kitty, 13½ to 14; West Peovor, 2 to 3; West Polbreen, ½ to 1; West Poldies, ½ to 1; West Beson, 8 to 9; Wheal Janes, 13½ to 13½; Wheal Grenville, 6 to 8½; Wheal Janes, 13½ to 1; West Polkers, ½ to 3½; Wheal Kitty, 10 1½; Wheal Coates, ½ to 36; West Tolgus, 8 to 10.

Messrs. Abbort and Wickerr, stock and share brokers, Redruth (Oct. 24),

To 1%; Wheal Coates, ½ to ¾; West Toigus, 8 to 10.

— Messrs. ABBOTT and WICKETT, stook and share brokers, Redruth (Oct. 24), write:—The market has been quiet this week, and but few transactions have taken place. Prices of all shares are low now and should attract attention. Closing quotations herewith:—Blue Hills, ½ to ¾; Camborne Vean, ¼ to ¾; Carn Brea, 3¼ to 4½; Cook's Kitchen, 15 to 16; Dolcoath, 64 to 64½; East Pool, 39½ to 40; Killifreth, 1½ to 1½; Penhalis, ¾ to ½; New Cook's Kitchen, 3 to 4; New Kitty, 1½ to 2; Bouth Condurrow, 8½ to 8½; South Crofty, 4½ to 5; South Wheal Frances, 8 to 8½; Timeroft, 6½ to 7; West Basset, 3½ to 4; West Kitty, 13½ to 14; West Peevor, 2 to 3; West Frances, 5 to 5½; West Toigus, 10 to 12; West Seton, 7 to 6; Wheal Agar, 13½ to 14; Wheal Basset, 3 to 4; Wheal Grenville, 6 to 6½; Wheal Kitty (St. Agnes), 1 to 1½; Wheal Peevor, 3 to 4; Wheal Uny, 1 to 1½.

Wheal Basset, 3 to 4; Wheal Grenville, 6 to 6½; Wheal Agar, 13½ to 14; Wheal Rasset, 3 to 4; Wheal Grenville, 6 to 6½; Wheal Kitty (St. Agnes), 1 to 1½; Wheal Peevor, 3 to 4; Wheal Uny, 1 to 1½;

— Mr. M. W. Bawder, Liskeard (Oct. 25), writes:—The mining market presents a dull and monotonous appearance, without any improvement in prices, and most shares are obtainable even at lower rates. At Herodsfoot Mine meeting held in London yesterday a call of 7s. 6d. per 12,000th share was made, and Mr. F. F. Wilson, of Finsbury-circus, was appointed secretary. Subjoined are the closing quotations:—Bedford United, 1½ to 14; Carn Brea, 3½ to 4; Cook's Kitchen, 17½ to 13; Dolcoath, 63½ to 64; Devon Consols, 2½ to 2½; Devon Great United, 34 to 3½; Caston, 34 to 3½, c. p.; Rast Pool, 39 to 39½; Gawton United, 34 to 3½; Clasgow Caradon, 3½ to 5½; Gunnislake (Clitters), 13½ to 2; Herodsfoot, 3½ to 3½, c. p.; Raw West Caradon, 3½ to 3½; Clitters), 13½ to 13½; Marke Valley, 3½ to 3½, c. p.; New West Caradon, 3½ to 3½; Prince of Wales, 3½ to 3½; South Crofty, 5½ to 6; South Devon United, 3½ to 3½; South Crofty, 5½ to 6; South Devon United, 3½ to 3½; South Crofty, 5½ to 6; South Devon United, 3½ to 3½; West Kitty, 14 to 14½; West Mary Ann, 3½ to 3½; West Caradon, 3½ to 3½; West Thomas, 3½ to 13½; Wheal Hony and Trelawny, 3½ to 1; Wheal Grenville, 6½ to 5½; Whall Hony and Trelawny, 3½ to 1; Wheal Kitty, 1 to 14½; Wheal Hony and Trelawny, 3½ to 1; West Fhoenix, 3½ to 4; Wheal Hony and Trelawny, 3½ to 1; West Fhoenix, 3½ to 4; Wheal Hony and Trelawny, 3½ to 1; West Fhoenix, 3½ to 4; Wheal Hony and Trelawny, 3½ to 1; West Fhoenix, 3½ to 4; Cook's Kitchen, 14 to 16; Dolcoath, 64 to 64/3; East Fool, 3½ to 4; Cook's Kitchen, 14 to 16; Dolcoath, 64 to 64/3; East Fool, 3½ to 4; Cook's Kitchen, 14 to 16; Dolcoath, 64 to 64/3; East Fool, 3½ to 4; Cook's Kitchen, 14 to 16; Dolcoath, 64 to 64/3; East Fool, 3½ to 4; Cook's Kitchen, 14 to 16; Dolcoath, 64 to 64/3; East Fool, 3½ to 4; Cook's Kitchen, 14 to 16; Dolcoath, 64 to 64/3; East Fool, 3½

West Sitty, 14 to 14%; West Peevor, 1% to 2; West Poldice, % to %; Wheal Grenville, 6 to 6%; Wheal Kitty, 1 to 13%; Wheal Basset, 3% to 4; Wheal Grenville, 6 to 6%; Wheal Kitty, 1 to 1%; Wheal Peevor, 2% to 3%; Wheal Care, 20% to 23%; Penhalis, 5%, to 10s.

MANCHESTER.—Messrs. JOSEPH R. and W. P. BAINES, share brokers, Queen's Chambers, Market-street (Oct. 25) write:—The past week has been productive of but a very moderate volume of business, the approach and the commencement of the fortnightly settlement now in progress no doubt begetting indifference to operate till bargains could be made for the "new time." Added to this, throughout the greater portion of the week prices have tended towards depression, led by the heavy lines, whose traffic returns are taken as a criterion of the condition of the trade of the country, and the revenue returns being disappointing the duit tone has been more pronounced. After "carrying over "yesterday a decidedly better feeling was manifest, but in some cases the higher prices marked have not been manifest, but in some cases the higher prices marked have not been manifest, but in some cases the higher prices marked have not been manifest, but in some cases the higher prices marked have not been manifest, but in some cases the higher prices marked have not been manifest, but in some cases the higher prices marked have not been manifest, but with the exception of a rise of \(\frac{1}{2} \) in Feruvians and \(\frac{1}{2} \) in Egyptian Unified, and a fail of \(\frac{1}{2} \) in Feruvians and \(\frac{1}{2} \) in Egyptian Unified, and a fail of \(\frac{1}{2} \) in Feruvians and \(\frac{1}{2} \) in Egyptian Unified, and a fail of \(\frac{1}{2} \) in Feruvians and \(\frac{1}{2} \) in Egyptian Unified, and a fail of \(\frac{1}{2} \) in Feruvians and \(\frac{1}{2} \) in Egyptian Unified, and a fail of \(\frac{1}{2} \) in Feruvians and \(\frac{1}{2} \) in Egyptian Unified Automater and \(\frac{1}{2} \) in Egyptian Unified Automater and \(\frac{1}{2} \) in Egyptian Unified Au

SCOTCH MINING AND INDUSTRIAL COMPANIES SHARE MARKETS.

SHARE MARKETS.

STIRLING.—Mr. J. Grant Maclean, stockbroker and ironbroker (Oct. 25), writes:— During the past week markets have been dull, owing to the unfavourable weather, and the quiet state of trade. Some think prices must still go lower before the public are induced to invest, and thus bring about a recovery, while others think prices are now as low as they are likely to be in view of the improved harvest this year, and the easy state of the money market.

In shares of coal, iron, and steel come anies, prices are steady. Chillington, 20s. to 25s.; Ebbw Valc, 63 to 7; Liyavi and fondu Ordinary, 70s. to 75s.; ditto (Preference), 50s. to 52s. di.; New Sharlston (Preference), 65s. to 52s. di.; New Sharlston (Preference), 65s. to 52s. di.; New Sharlston (Preference), 65s. to 53s.; ditto (Inshers of foreign copper and lead companies prices are easier. Tharsis declined from 6% to 6f. 9s., but are now firmer, about 6f. 9s. 6d., as if is stated they have concluded large contracts for pyrites, which will keep the whole of their metal works going to 1837. Arizonas have improved from 36s. to about

42s. 6d., owing to the change in the Chairman of directors. Bratsberg, 50s. to 55s.; Pierrefitte, 15s. to 17s.; and Yorke Peninsula, 1s. 6d. to 2s. 6d.

In shares of home mines there has been little business doing. The Glasgow Caradon's increased cspital is to be 4000£, in 1£ shares, 7 per cent. interest. This company's last sale was rather a small one, and so far this year their sales have realised 524£ less than to the corresponding period last year. Camborne Yean are at 2s. to 4s.; Cara Camborne, 15s. to 17s. 6d.; East Wheal Uny, 5s.; East Devon Consols, 7s.; North Grogwinion, 2s. 6d. to 5s.; North Blue Hills, 2s. 6d.; Parys Copper, 2s. to 3s.; Pedman-drea, 5s. to 7s. 6d.; Pince of Wales, 6s. to 6s.; Rosesmors, 30s. to 40s.; Sinclair, 20s. to 25s.; Tankerville, 2s. to 2s. 6d.; Ranesesmors, 30s. to 40s.; Sinclair, 20s. to 25s.; Tankerville, 2s. to 2s. 6d.; Tarmar, 10s. to 12s. 6d.; West Devons, 2s. 6d.; and Wheal Sliver, 15s.

In shares of gold and silver mines there is no particular change in prices to notice. Akankoo, 5s. to 5s.; Callam Bisnoo, 4s. to 6s.; Californian, 15s. to 17s.; Colombian Hydraulic, 4s. to 6s.; Calido Bis, 6s. to 8s.; Colar, 1s. 3d.; Eberhardt, 3s. to 5s.; Gratz Zaruma, 7s. to 9s.; Montans, 28s. 9d. to 41s. 3d.; New Callao, 1s. 3d. to 2s. 6d.; Khihonoo, 7s. to 9s.; Montans, 38s. 9d. to 41s. 3d.; New Callao, 7s. 6d. to 10s.; New Emma, 30s. to 35s.; Potosl, 3s. to 5s.; Potr Phillip, 1s. 6d. to 2s. 6d.; West Callao, 1cs. to 15s.; and Yuba River, 7s. 6d. to 12s. 6d.

In shares of miscellancons companies prices are steady. Burntisland Oils de-

22. 6d., a shares of miscellaneons companies prices are steady. Burntisland Oils de-ted from 23½ to 23½, but are now firmer. Home Mines Trust, 10s. to 12s.; res' Chemicals, 5½ to 6; Nobel's Explosives, 25½ to 26; Odam's Chemicals tted at 9; Phospho-Guano, 90s.

EDINBURGH.—Messrs. Thos. MILLER and Sons, stock and share brokers, Princes-street (Oct. 24), write:—Prices of home railways are on the whole somewhat lower since last report. Canadians have been very changeable, the approach of the Grand Trunk meeting apparently influencing the market. Since Wednesday last week Caledonian Ordinary has gone from 104 to 1034; Great North from 59 to 54½; Highland from 95½ to 94½; Edinburgh and Glasgow from 42½, to 41¾. In mines Arizonas have changed hands freely and have risen from 40s. to 42s. 6d. Steel Company have declined from 91. 8t. to 9½.

In oil shares Burntisland have changed from 23½ to 23½; Clippen's from 17% to 18½; to 19½; Westfield from 11½ to 12½; to 11½; Uphali from 91½ to 9½; Westfield from 11½ to 12.

IRISH MINING AND MISCELLANEOUS COMPANIES SHARE MARKET.

CORK.—Messrs. J. H. CARROLL and SONS, stock and share brokers, South Mall (Oct. 24), write:—Great Southerns were dealt in at 1194, Midlands were steadier at 82½. No change in Bandons or Macrooms. Bank of Ireland Stock, 328. Provincials were easier at 31½. Nationals were firm at 24 9-16, and Munsters at 6½. Cork Gas Shares were enquired for at 7½. Cork Packets changed hands at 11 15-16, and Gouldings at 9. Lyons were unaltered, and Harbour Board Debentures were hyperstates. tures were buyers at par.

TANGYES (LIMITED).

The first annual meeting, held at Birmingham on Tuesday, was made the occasion for the inauguration of two important arrangements affecting the relations between the firm and their employés. The firm have long desired to give some of the oldest foremen and workmen some little interest in the business in addition to their salaries, but how that was to be done was for some time a very difficult problem to solve. If a workman were admitted into the partnership only for a small amount he would have all the rights and privileges of a large shareholder, and if his share once got into the hands of an attorney troubles might arise which would be decidedly the reverse of compensating the firm for taking that workman into the business. Many employers, no doubt, would be very pleased to give their tried and valued workpeople a share in the business, but for the fear of trouble which might subsequently arise with executors, administrators, and assigns. The difficulty of admitting workmen into partnership with their employers is, therefore, very great, but the Messrs. Tangye have at length initiated a plan which, while it removes all the difficulties with hitherto beset the scheme, will enable the firm to carry out their long-cherised design of adding to the benefits and comforts of those in their employ. The scheme which has just been adopted it his:—A certificate of indebtedness or bond issued, setting forth that the bearer is entitled to interest upon it at the same rate as the dividend declared by the company upon its ordinary shares, and in ease the bearer dies before the end of the year for which the bond is good his family is entitled to the value of bond—50. The firm reserve to themselves the right to pay the 50t, to the widow, or for the school fees and clothing of the children, or towards the rent. This scheme will involve a little trouble in carrying it out, but it is considered the most satisfactory way which can be devised. By means of the bonds the holders will enjoy all the pecuniary advantages of shareholder The first annual meeting, held at Birmingham on Tuesday, was

of §in Argunian Hard Dollar Bonds, the changes are very light. Mexican Balisary, flough only § down on the week, have declined severely from the Hardway, flough only § down on the week, have declined severely from the Hardway, flough only § down on the week, have declined severely from the Hardway, flough only § down on the week, have declined severely from the Hardway, flough only § down on the week, have declined severely from the Hardway, flough only § down on the week, have declined severely from the Hardway, flough only § down on the week, have declined severely from the Hardway, flough only § down on the week, have declined severely from the Hardway, flough only § down on the week, have been declined severely from the Hardway, flough only § down on the week, have declined severely from the Hardway of the Hardway o

INSTITUTION OF MECHANICAL ENGINEERS.—At the meeting at Birmingham, on Thursday next, the papers to be read and discussed are—"On the Inventions of James Watt, and his models preserved at Handsworth and South Kensington," by Mr. Edward A. Cowper, of London, past-President; "On Fuel Consumption in Locomotives," by M. Georges Marié, of Paris; and "Experiments on Friction, Report of the Research Committee." The reading and other rooms of the Birmingham and Midland Institute will be open to members during the day. After the meeting the members are invited by the Council of the Mason Science College to visit the College for the purpose of inspecting the lecture rooms, museum, and library. specting the lecture rooms, museum, and library.

YORKSHIRE BRUSH ELECTRIC LIGHT AND POWER COMPANY.— The Chairman (Mr. H. W. Lowe) said that it had been evident to the directors lately that they could not recommend the shareholders to continue the business with its present burdens. The amalgamation now proposed would remove those burdens, and in exchange for their unmarketable security in shares they would obtain an interest-bearing, saleable security. This alone was a desirable object to attain. He noticed that the Hammond shares, on which 31. 15s. each had been paid, had been quoted quite recently at 31. 10s. Towards the end of the year a call was due on those shares of 11. 5s., so that adding the 31. 10s., the market value just mentioned, to this found that the market value the shareholders would receive for they had in this company was 4. 15s. This would be equal to be, a mare (on which 2t, has been paid). He thought these terms must be regarded as favourable to them, in the circumstances, and no doubt they were also favourable, in some measure, to the Hammond Company. With the present expenses abolished, he saw no reason why, after a time, the business which they would hand over to the Hammond Company would not be remunerative. The resolutions approving the amalgamation were carried. The Chairman said that another meeting would have to be held to comply with the Companies Acts, and he hoped the exchange of their shares for those in the Hammond Company would then be made soon after Nov. 15.

Meetings of Public Companies.

COOTACOVIL GOLD MINING COMPANY.

The ordinary general meeting of shareholders was held at the City Terminus Hotel, Cannon-street, on Thursday,

Mr. JAMES LABOUCHERE in the chair.

Mr. H. TOLPUTY (the managing director) read the notice convening the meeting. The report and accounts were taken as read.

The Chaima as aid that before going into the details of the restate of their raffairs compared with their position about a year ago, when their prospects looked as favourable as they could have wished. Since that time the shareholders had received a circular, dated April 22 last, in which the directors stated the disapointment they all feltials the mine had turned out to be of so little value. Shoequeit experience them were the state of their prospects looked as favourable as they could have wished. Since that time the shareholders had received a circular, dated April 22 last, in which the directors stated the disapointment they all feltials the mine had turned out to be of so little value. Shoequeit experience them were the state of the state of the state from the state from the state of the state of the state from the state of the state from the state of the state

ceived his salary as consulting engineer until he went to India last, and then he was only paid his bure expenses. He had relieved to accept anything further. He had resigned his position as consulting engineer to the company, and had since that time received nothing from the company.

A SHAREHOLDER asked whether the Tambracherry Company would not meet this company more fairly than had been suggested. (Hear, hear.) If they retained 10,000 shares they would still have received 3004, an acre for the property. (Hear, hear.)—The CHARMAN in reply said that the directors were animated by a spirit of compromise, and would do everything they could to put the shareholders of the Tambracherry Company, but they could make the suggestion to them.

ble starsholders on the best possible of the terms of the prospectus and to the term.

A SHAREHOLDER referred at length to the terms of the prospectus and to the statement by Mr. Harvey that 10 dwts. of gold to the ton was certain. He extrement by Mr. Harvey that 10 dwts. of gold to the ton was certain. He expressed the disappointment felt by a great many of the shareholders, and said ne thought they should have had a meeting before this to explain the views of the board. The expenditure appeared to be frightful, although the basinosheet was so complicated as to be very difficult to understand.

The URAIRMAN replied that the second was were made up to June 30, and the working was stopped on July 14. From the moment that it was seen that the working was stopped on July 14. From the moment that it was seen that the working was stopped on July 14. From the moment that it was seen that the working was stopped on July 15. Prom the moment that it was seen that the coffice expenses 100. of that was due to the large number of telegrams, in consequence of the failure of the machinery. They had already had an enquiry for their railway trucks and other things from a Bombuy firm; they had already their railway trucks and other things from a Bombuy firm; they had already sold some from roofing and surplus stores. The machinery was being preserved in good order the present manager being a trained engineer, thoroughly competent to look after the machinery, and to superintend its removal if required.

Mr. TOLPHTT (the managing director) said that wish regard to Mr. Harvey's (ass the arrangement was that he should have a salary of 400, a year as con-

sulting engineer, exclusive of his expenses, and a portion of that was paid by the Tambracherry Company. For his first visit to India Mr. Harvey received his expenses had, he thought, 1601; but for his second visit he received nothing but his actual expenses. Mr. Harvey had, in fact, received only a fourth or a fifth of what other engineers had received from other companies, while he had shown his faith in the company by taking ahares in it entirely unsolicited by the directors. The directors fees were fixed at \$500. a year; but they had been reduced to \$250. Their claim against the manufacturers of the machinery was now pending.

had shown his faith in the company by taking shares in it entirely unsolicited by the directors. The directors fees were fixed at 500.4 s year; but they had been reduced to 250l. Their claim against the manufacturers of the machinery was now pending.

The CHAIRMAN, in reply to a question, said that to make the plantation of cinchons a success it would not be desirable to start it with a less working capitat than 10,000l; but that sum would be sufficient for the cultivation of both cinchons and coffee until both crops were in bearing.

Mr. Harwey said he had come to the meeting prepared to meet any censure which the shareholders thought right to cast upon him in regard to his actions in connection with the company. He had acted as their adviser in the light of long and unvaried experience, and he was sorry to have to admit that he had made a mistake. No man could go into a mine and say that it was going to yield a profit, time and capital alone could prove that, but he had advised the company to the best of his judgment. He had received what he thought a meagre salary for looking after the affairs of the company, as he had done most diligently. He had advised that the property should be opened up, and as to the erection of the machinery and the development of the mine in a legitimate manner. No one could more regret the failure of that development than himself, for he spoke as a professional man and as a shareholder in the company. As to the machinery, he went for it to what he believed to be a first-class reputable firm, which had put up some other machinery under his supervision in a hordward of the machinery, he went for it to what he believed to be a first-class reputable firm, which had put up some other machinery was not in accordance with the contract. Besides this it was landed two or three months at the render of the found on his visit to the Wynaad that the machinery was not in accordance with the contract. Besides this it was landed two or three months at. When it did arrive, however, no time was lost

SCOTTISH AUSTRALIAN MINING COMPANY.

The half-yearly meeting of shareholders was held at the Cannon

The CHAIRMAN, in proposing the adoption of the report and payment of a dividend at the rate of 15 per cent. per annum, observed the half-year's work at the Lambton Colliery has been of a satisfactory character. There has been a good demand for the coal, at times The CHAIRMAN, in proposing the adoption of the report and payment of a dividend at the rate of 15 per cent. per annum, observe the half-year's work at the Lambton Colliery has been of a satisfactory character. There has been a good demand for the coal, at times larger than the colliery has been able to supply; the price has remained at its, a ton, which is a fairly remunerative price to the colliery owner, and their mon have been of a peaceful claracter. The result of this state of matters is seen practically in the improved profits shown by the company's accounts, and it is to be hoped that the half-year now current may be equally satisfactory. From the advices that have been received, so far, there seems every probability that is the line of the colliery per colliery in the colliery profit is state of matters is seen practically in the limit best of the colliery proprietors that the price shall continue at its, during tilly its. It was thought by some persons that, as the demand had been been so good, an effort might be made to raise the price but, on looking at all the circumstances of the case, it was feet that price is that, on looking at all the circumstances of the case, it was feet that price is the colliery profit; in the second place, it has been accepted sa fair price by buyers of coli; in the third place, the miners are working contentedly under the wages which this price enables the masters to pay, and, lastly, a change in price gives rise to a good deal of trouble in connection with hyers in distant parts, and ship taking a cargo of coal on ship's account, some time shead. So, on the whole, it was considered best by Mr. Morehead and the other colliery representative to "let well alone," and to go on through 1354 at the same price as during 1533. The question of increasing the producing capability of the colliery representative to a seal of the colliery will have to be practically dealt with. Preparation has been, to some axten, made, and colliers will have to be practically dealt with. Preparation

The money on deposit in Australia has been earning 4 and 5 per cent, interest, and recent advices show that 6 per cent, is now being given by the banks for fixed deposits in Australia.

Mr. Fragueson observed that he had at previous meetings urged a more worked earling with the Cadia properties, but he felt convinced now that the policy of the board was the right one, and that they had acted wisely in not risking the company's funds in the search for gold there. He was glad to see that Capt. Holman proposed to test the ironatone reef for gold. He approved of the proposal of the directors not to divide the profits more closely, but to make some addition to the reserve fund.

of the proposal of the directors not to divide the profits more closely, but to make some addition to the reserve fund,

Mr. Frawer thought the report was the best one he had ever received from the board. He hoped the Stockton Coal property would be at least so far developed and got into order as to enable it to be used whenever it might be required as an adjunct: Lambton. He approved of the directors' policy in regard to Cadia. At present there was no desire on the part of investors to enter into mining speculations; but, doubtless, the time would come again when there would bean inclination to do so. It would be an important matter if coal were to be found near the Cadia property, as that would enable the iron over to be utilised.

Mr. O. S. Hill thought that Captain Holman's desire to have a more fixed tenure was reasonable, and suggested that it might be possible to let a portion of it in that way without fixing the whole, but, of course, he did not know whether that was practicable.

The CIARMAN, in replying, said that Stockton was a promising property, and ass being kept fully in view as a possible auxiliary to Lambton. Coal had not yet been found near Cadia, but it was being searched for, and believed to exist here. The board had been suxlous to strengthen the reserve fund, and hoped to be able to continue to 20 80, although when the fund had become reasonably strong it might be unnecessary to put away so large a proportion of profits as they had done this year.

The motion for the adoption of the report and payment of the dividend was passed unanimously, the auditors fees voted, and the meeting closed with a vote of thanks to the directors and officers, moved by Mr. FEEGUSSON, and seconded by Mr. FEEWER.

WHEAL JANE MINING COMPANY.

A meeting of shareholders was held on the mine on Oct. 19 (Col.

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FOREIGN MINES

FOREIGN MINES

ALMADA AND TIRITO CONSOLIDATED SILVER.—R. Harris, Sept. 15: 100 Lode: We are driving north and south of No. 1 winze at the 12 fm. level, and have already opened 34 ft. on the lode; width of paystreak driving north, 3 ft.; estimated yield per lineal fathom, 12 tons; width of paystreak driving south, 4 ft.; estimated yield per lineal fathom, 15 tons. The stope in back of No. 45 drift carries 3 ft. of ore for 105 ft. in length, and produces 12 tons of milling ore per lineal fathom. The north part of the stope is less highly mineralised. The width of paystreak for 70 ft. in length is 1½ ft. We estimate its yield at 6 tons per lineal fathom. No. 45 drift north has become very dredy, and producing nothing to value has been stopped. We are driving the cross-cut in the 12 with all possible speed. In the sluking of No. 2 winze below No. 45 drift the width of paystreak is 3 ft; estimated yield per lineal fathom, 12 tons. In Guijas 11 ft. have been driven during the fortnight. The south breast is in 3 ft. of ore, which we estimate at 12 tons per lineal fathom. The upraise is now 6 ft. above the back of the drift.

— Telegram, W. A. Clemes, Aug. 25: Reduction Works: Week ending this day 183 tons (English) were roasted pulp assays, 20-4 and 24 5 ozs. troy per ton.

— Telegram, Sept. 1: About 194 tons (English) were roasted in week. Raw pulp assays 28-0 and 27-4 ozs. troy per Annerican ton; roasted pulp assays, 26-4 and 26-3 ozs. troy per ton.

— Telegram, Sept. 1: About 183½ tons (English) were roasted in week. Raw pulp assays 28-0 and 28-3 ozs. troy per 4 and 26-3 ozs. troy per ton.

— Telegram, Sept. 1: About 183½ tons (English) were roasted in week.

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THE MINING JOURNAL.

THE MININ

showing more ore with streaks of iron, and rock is getting soiter, breaking to good advantage.

150 ft. level in Silencio Mine, from which he expects good results. Mr. F. White also states the mines produced steadily and well with the exception of the Silencio and Talada Mines, in both of which we may anticipate shortly better returns and less cost as their new machinery is completed.

GOLD COAST.—Aug. 23: The mill is crushing away as hard as it cap. I am rather anglous about water, yet think what we have got will last until we have moved in the movement in the move and the support of the support of

PPLANGUI GOLD.—T. S. Trelear, Sept. 2: The produce for August was 121 of the, and has been durined from Holland's shall, Staking on the new value of the coming exhausted, gold raising operations for the present with some host interesting of the coming of the confined to the coming of the

ORGANOS GOLD MINES.—An extraordinary general meeting of the shareholders of this company was held yesterday (Friday), when the resolutions passed at the meeting held on Oct. 12 were unanimously confirmed by those present. Reports have recently been received from the mines, and copies of these were posted to the shareholders on Wednesday last. They were considered to be of the most satisfactory character, and at the meeting several private letters were read from parties in Colombia which fully bear out all the statements hitherto made respecting the mine. It was stated that a considerable number of shares have already been applied for, and the feeling was that the shareholders should immediately subscribe for their pro rata proportions of the new issue, those present agreeing to take their share. ORGANOS GOLD MINES .- An extraordinary general meeting of

ARIS'S BIRMINGHAM GAZETTE.—Under the new proprietary—Mr. Victor Milward, Chairman, and the Right Hon. Lord Windsor' Lieut.-Colonel the Hon. G. Windsor Clive, M.P., Mr. Alfred Arthur Sylvester (manager), and Mr. Arthur Wenham, directors—considerable changes and improvements have been effected in the Birmingham Gazette. The journals have been permanently enlarged, the columns have been lengthened to an extent equal to three extracolumns per day, while on Thursday the paper has been augmented to fifty-six columns, representing an increase of eleven columns. Each of the departments has been strengthened, numerous special 'features" have been added, and the paper is now printed by entirely new machinery, which is pronounced to be the most complete obtainable. This is gratifying, as the Gazette is one of the oldest (established in 1741) and best known papers in the kingdom, and possesses a large influence amongst the wealthy classes throughout a wide district. Under the new proprietory energetic efforts will be made to render the Gazette a most useful and popular paper in regard to its comprehensive news supply, its literary articles, and its commercial intelligence. commercial intelligence.

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WATSON BROTHERS' MINING CIRCULAR.

WATSON BROTHERS, MINEOWNERS, STOCK AND SHARE DEALERS, 1 ST MICHAEL'S ALLEY, CORNHILL, LONDON

In Mr. Watson's "Cornish Notes," published in the Mining Journal of June, 1863, he referred to his visit on the 16th of that month to Drakewalls Mine, then making a large profit and under the management of Capt. Gregory, who took him over the mine, and rendered him every attention and assistance in making him acquainted with all the operations and the principal points of interest.

And finding that the same Capt. Gregory had taken charge of Langford for the liquidator, and has made a discovery in the 30, Mr. Watson wrote him calling attention to their meeting in 1863, and asking him to give his open, honest, and candid opinion of Langford as a speculation. We now publish his reply without comment.

"Langford, Oct. 17, 1883.—Dear Sir,—I perfectly remember with some degree of pleasure when we met at Drakewalls some 20 years

since.

"Therefore, in reply to yours of yesterday, respecting Langford Mine, I beg to give you my frank, candid, and faithful report of the property. The discovery we have made is in a stope in the back of the 30, near Malachi's shaft, within a short distance of where the old company raised so much rich silver and silver-lead. The present workings of Langford, you are aware, are chiefly above the 40 fm. level, east of your engine-shaft, and which have been very productive from the 40 to surface, and I have no doubt as the 50 fathom levels are driven from your present engine-shaft the same deposits of rich silver and silver-lead ore will be met with, and thus a new mine will be laid open. We are now raising some very good ore mine will be laid open. We are now raising some very good ore from the back of the 30 east, where the strata is all that can be desired. I can see no cause why the same rich depo-its of ore may not be found in the deeper levels when fairly brought forward to the

ore ground
"In addition to this part of your property, there is a very extensive piece of undeveloped mineral ground west from engine-shaft on the course of the silver and other productive lodes of this district, and from these lodes east of your engine-shaft in Langford Mine the greatest deposits of rich class ores have been raised.

"Seeing, then, that west of your engine-shaft, up to the present time, but little has been done in the various productive lodes below the shallow dit or morely surface working, and as these are inter-

the shallow adit, or merely surface working, and as these are inter-sected in their westerly course, and no doubt greatly influenced by the silver-lead producing cross-courses of the Callington mines in general, and from which, in these mines, tens of thousands of pounds worth of rich mineral have been raised. With such positive facts before us, my candid opinion is, in Langford, if fairly and energeti-cally developed you have a sound and valuable property.

cally developed, you have a sound and valuable property.

"The engine-shaft being now 60 fms. in depth, has drained the
western ground so as to admit of its being cheaply worked and at a
hcap late. (Signed) "Thos. Gregory."

The West Kitty lode runs through East Blue Hills, and may intersected in Gumpas adit, which has been cleared for a long distance. We shall, however, be able to say more about this shortly, probably next week.

The agent of Prince of Wales wrote on Monday—"We are hauling to-day a splendid rich pile of copper from the 102 west. Nothing like it has been seen since its palmy days."

A "Correspondent" in last week's Journal endeavours, for some reason best known to himself, to throw cold water upon the New Langford Cost-book Company. We can assure him, however, and the shareholders, too, that whatever is done will be done openly and legally. If the company is not carried out the liquidators will have no alternative but to sell the machinery piecemeal, or as a going concern, in which case there will be nothing whatever for the shareholders. We have not only a large stake ourselves, but our friends are also deeply in it, and our object is to save the mine, and conseholders. We have not only a large stake ourselves, but our friends are also deeply in it, and our object is to save the mine, and consequently loss to the shareholders. And there is nothing we apprehend against the spirit or letter of the Cost-book in the plan proposed, that is to divide the company into 25,000 shares and make a call of 5s. per share on the lot. The company would purchase the property of the liquidator for 46251.—1500l. in cash to pay debts and 3125l. in shares with 5s. paid. Thus the holder of 100 shares in the old company, if he took 100 in the new by paying the call of 5s. upon them, would have 100 more from the liquidator 5s. paid, making 200 at 2s. 6d., and they would be quoted at 5s. This plan would also give 1625l. working capital and enough to carry on the mine for 12 or 18 months without any further call.

The news from Prince of Wales is very cheering in these times The news from France of Wales is very cheering in these times; the discovery is in the 102 west, one of the points expected, and the agent reports that in five days he broke and dressed from the stope 12 tons of solid copper ore of high percentage; and the miners say they have never seen such rich rocks of ore from the mine, under the old working, and when the mine paid dividends.

At West Crebor the 76 end east is looking like coming into ore

We will endeavour to answer the enquiries respecting Killifreth and Bedford United next week.

Mining Correspondence.

BRITISH MINES.

BRITISH MINES.

ABERDUNA.—R. Prince, Oct. 25: In the 66 cross-cut we have, I am glad to say, intersected the lode to-day. I shall be able to report about the value in my mext. The rise in the 112 east has a very nice show of lead. The shaft is going down fairly well, considering how hard the ground is.

ANDERTON TIN.—W. J. Bowhay, Oct. 24: I have explored the 20 west 46 fathoms. Our progress is still impeded by a large pile of broken tinstuff heaped quite up in this level, which the men are busy clearing back; and I hope in two or three days to reach the west end of the drivage, which, I think, may be 3 or 4 fms. further, and appears to be close up to the cross-course. The men shall be set to cut this through once we reach the end. Our drawing-engine is now being delivered, and shall be got to work as soon as possible. The skip-road is ready to go in, and very soon the stuff now blocking our level shall be drawn up to the stamps. The lode in the western end, at adic level, nover looked better than now, and is letting out a big stream of water, and the stope is yielding some fine stuff for the stamps. The engine and all the machinery are working well, and good progress is being made in all departments, dressing included.

BEDFORD UNITED.—H. Trecise, Oct. 22: There is nochange in the 115 east and west on the north lode, but the 103 west is looving more promising tinan for some time past.—McCallain's Shaft, Bridge Lode: The shaftmen are getting for driving, and looking very congenial for the production of copper ore. There is a nice leader of black and yellow ore in the present end, which, in my opinion, will lead to good results. In the same level east the lode is 21t. wide, producing ore and mundle. The drivage in the 42 east is by the side of the lode. We have

for driving, and looking very congenial for the production of copper ore. There is a nice leader of black and yellow ore in the present end, which, in my opinion, will lead to good results. In the same level east the lode is 2 ft. wide, producing ore and mundio. The drivage in the 42 east is by the side of the lode. We have not taken down any lode in this end for some time past, but, as soon as convenient, we shall do so. Looking at the character of the ground, I hope to find the lode improved the next taking down. Nos. 1 and 2 stopes, in the back of the 42 east, are worth respectively 10f. and 2f. per fathom. In the 33 east the lode is not taken down. The stope in the bottom is worth 13f. per fathom. I consider our prospects throughout the mine very encouraging, and hope in a lift or two more sinking the shaft to find a good deposit of ore.

BLUE HILLS.—S. Bennetts, R. Harris, H. Gripe, Oct. 24: The 66 east end on the Pink iode is worth 5f. to 6f. per fathom. The Baldhu lode in the 54 west end is producing some low quality tinstoff, but not of much value. The 42 east end is producing some low quality tinstoff, but not of much value. The 42 east end is producing some low quality tinstoff, but not of much value. The 42 east end is producing some low quality tinstoff, but not of much value. The 42 east end is producing. And the 20 east is worth 5f. to 6f. per fathom.

OARN CAMBORNE.—W. C. Vivian, Oct. 29: In the 105 fm. level cross-out from engine-shaft towards the south lode we have now advanced 15 fms., and must be within a very short distance of the lode. The granite continues hard in this drivage. In the rise in the back of the 95 fm. level, west of sump, on the south lode, we find the quantity of copper ore in the last few feet docreasing. As, however, we have driven 25 fms. in this level through a lode companied by the most favourable appearances indicating still greater productiveness in going below the level, were are encouraged to look to the 105, now so near the intersecting of this lode, for better res

The lode in the 74 still maintains its value for tin. The lode in now become compact, and producing a little tin. We shall speak

in appearance. The lode in the 74 still maintains its value for tin. The lode in the 54 east has now become compact, and producing a little tin. We shall speak more definitely on this point next week.

COLLACOMED CONSOLS.—William Sikewis, Oct. 25: The engine-shuft is set. COLLACOMED CONSOLS.—William Sikewis, Oct. 25: The engine-shuft is set. The lode in the 50 west is 4 ft. wide, yielding saving work for copper. In No. 1 stope the men are for the time employed in putting stull in back of the level. The lode in the 72, west from engine-shaft, is 3 feet wide, worth 1 ton of copper ore per fm. The lode in the 110, east of cross-cut, is 2 ft. wide, producing good copper ore of a rich quality, and likely to improve quickly. The western end of this level is worth 1 ton of copper ore per fm. All other places the same as last of the control o

The clearing of the shaft and the plats at the 80 is proceeding in a satisfactory manner. All the pitches and bargains are producing the usual quantity of tin, and we shall have another 10 tons for sale within the four weeks from the date of last sale.

EAST BOTALLACK.—T. Trahair, Oct. 24: Since the last report we have sunk the engine-shaft 1 fatnom; the lode maintains its size and quality. The lode in the 10, cast of shaft, has very much improved since last reported. The 10, driving west of shaft, is opening tribute ground; the tributers in the back of this level are getting fair wages at 10s in 11. The adit end, driving east of the shaft, is looking better since we have driven through the cross-course. The adit end, driving west, is looking just the same as last reported. The tributers in the adit level are raising a fair quantity of tinstuff, worth about 60 lbs. of tin to the ton of stuff. The stamps and machinery are working well.

EAST BLUE HILLS.—S. Bennetts, W. K. Mitchell, Oct. 24: There is not much change to notice in reference to the eastern shaft during the past week. We are expecting to hole the rise from the adit to the 40 in the course of another week. The stope in the back of the adit continues worth about 10%, per fm.

EAST CARADON.—Wm. George, John Klieuw, Oct. 24: The followinglis a report of our setting on Saturday last:—To drive the 130 cross-cut south, by six men, at 54, per fathom; to de 1½ ft. wide, composed of capel, mundic, and good quality copper ore. To rise in the back of this level, by four men, at 7%, per fathom; the lode here has also a very promising appearance, and looks lavourable for early improvement. We have set four tribute pitches to eight men, at 9s., 12s. 6d., and 13s. 4d. in 14.

EAST WHEAL ROSE.—W. Skewis, T. Doidge, R. Gill, Oct. 23: Penrose's Engine-Shaft: The progress here has not been so great as we could have desired, owing to the difficulty in getting the lift down through the timber and stuff. We are hopeful, however, that this will be of short duration; at any

the mine will be drained to the bottom of the downright as fast as the men can ix the work in the shafts; therefore, we look with great expectation to speedily getting hold of the fine courses of lead which will be obtainable when we reach the bottom of this mine.

GAWTON.—G. Rowe, Oct. 20: The part of the lode carried in the 117 east is fit, which, and is showing a kindly appearance, yielding sulphur and arsenical mundic, with good quality copper ore. The winze sinking below the 117 east has been continued by the side of the lode during the past week. Nos. 1, 2, and 3 stopes in the back of the 117 east continues to yield the usual quantity of mundic and ore. The lode in the stope in the back of the same level, east of rise, is yielding 10 tons of arsenical mundic per fathom. The stope in bottom of the 105 west of winze is improved, yielding 10 tons of arsenical mundic per fathom. The stope in the bottom of the same level east of winze is yielding 6 tons of mundic and ore per fathom. The lode in the 95 east is 4 ft. wide, mixed with capel, mundic, and a little copper ore. Nos. 1 and 2 stopes, in the back of the 70 east, is yielding 10 tons of mundic per fathom.

GODDARD'S LEAD.—R H. Vilvian, Oct. 25: We continue to push on the eastern adit level with all possible speed. This end is a little easier for driving this week, and shows more load ore in the hanging side then previously. Lathe bottom of the forebreast we have loose ground in the lode, with a very kindly mixture of lead and blends. We are evidently passing over a good vein, as there is a strong feed of water coming up from the bottom. It led certain that we have a good body of lead close under this end.

GODDEVERE—R. Knott, Oct. 24: There is no change to notice in the underground workings this week. The parcel of this sold realised 56. 2s. 6d. per ton.

GREAT LAXEY.—F. Reddicilife, Oct. 24: Casing, &o., of Welsh shark to the

ground workings this week. The parcel of the sold realised 561, 2s. 6d. per ton. GORSEDD AND MERLLYN.—Oct. 25: From the 70 east the branch of lead from the forebreast continues to increase in size and value as we proceed.

GREAT LAXEY.—F. Reddiclifie, Oct. 24: Casing, &c., of Weish shaft to the bottom was completed, and driving at the 271 commenced as promised in our last report. In the 259 end north a short cross-out has opened an additional branch of lode, containing but little ore, but looking more promising. There is no new feature in the 247 or 235 north, except that at the latter place a stream of water has just been met with, which we expect will still lower the water in the vicinity of Dumbell's shaft. There has been a little more ore in bottom of engine-shaft during the past week, and the value 15t, per fathom. The 235 south, although a strong lode, contains stones of ore only.—Dumbell's: The sinking of this shaft has been completed to the 245, and the casing, &c., is nearly complete, so that driving at that level will be commenced next week The 231 north is worth 12f. per fathom; the 125, 40f. per fathom. The two former being the average value for some little time past, but the latter being a great improvement during the last few days. The 170 north is worth 12f. per fun. The 70 south contains but yeerylittle ove. The adit end now driving upon the eastern branch has contained a little ove. In additional of the contains of the contains of the per sold is looking better, and, from present appearances, a change is near at hand. It is producing good stones of lead, and letting out more water. The 20 west the lode is looking better, and, from present appearances, a change is near at hand. It is producing good stones of lead, and letting out more water. The 20 east is also improved, and vielding lead of a good quality.

GREEN HUBEL—I. Polglase, Oct. 18: The 44 end, north of Swan's shaft, is worth about 3 tons of oreger tathom.

worth 1½ ton per fathom. No. 2 stope, south of No. 1 winze, is worth 4 tons per fathom. No. 3 stope, south of No. 1 winze, is worth 3 tons per fathom. No. 4 stope, north of No. 1 winze, is worth 5 tons per fathom. The stope in back of Standage, is worth 3 tons per fathom. The end, north on No. 2 vein, is small, with spots of ore. The 44 end, south of Swan shaft, continues about the ame. Trial drift, near Robinson's sump, in back of the 30, is worth 2 tons per athom. We have plenty of water for the pumping-wheel, and dressing is going na susual.

fathom. We have piently it water to the property of the shaft cleared of rubbish and old deads and have been engaged nearly all the week putting timber in the drift. We have also been shooting off the Sun side; in doing so we have uncovered a fresh vein (which the old men had gradually lost), going west in the

covered a fresh vein (which the old men had gradually lost), going west in the vein.

HAREHOPE GILL.—George Robson, Oct. 20: During the past fortnight No. 2 west level has been driven 10 fms., and No. 2 east 9 fms.

HEALEYFIELD.—John Trelease, Oct. 19: I beg to hand you the following report:—Since my last, we have subpended three of our tutwork bargains, in consequence of the low price of lead. Two of the partnerships have left, and the others have taken some old ground on tribute at 45s, per bing in the back of the middle level. We have now 30 pickmen employed in the mine, mostly working on tribute prices ranging from 40s. to 45s. per bing. The average yield for lead ore in the eight pitches ranges from 10 to 15 cwts, per fathom. We have intersected a strong string in the west cross-cut at the Success level. We drove the cross-cut in the plat, and have a few fathoms to rise to intersect the sill above, which I think will be productive for lead. Though we have intersect this vein in the plat, it has highly mineralised leaders of quartz with ore in it. I purpose to drive north on its few fathoms, then rise up through the sills above. We are getting forward now with the new chat mill, &c., at the washings. We hope to start the machinery some time next week. Fair progress has been made in the Whitwell shaft this week. We shall have sunk over 2 fms. by the end of the week, and the ground still congenial for sinking. The machinery is working well. The Derwent level is still closed, which retards our progress.

HINGSTON DOWN.—Thomas Richards, Oct. 24: The 52 has been extended

machinery is working well. The Derwent level is still closed, which retards our progress.

HinGSTON DOWN.—Thomas Richards, Oct. 24: The 52 has been extended east of the south cross-out 12% ft.; the lode is without important change. The shaftmen are now employed cutting ground, dividing and casing, putting in skip-road, &c., from the 40 to the 52. This work will require about a fortnight to complete, when the 52 will be immediately resumed. The lode in the 40 east is large (over 7 ft. wide), containing capel, quartz, arsenical mundic, &c., with occasional stones of copper ore, and towards the south part a little tim.

KIT HILL GREAT CONSOLS.—Isaac Richards, Oct. 23: The ground at the tunnel level has slightly improved during the past week, and 2 lms. 1 ft. have been driven.—North Shaft: In the 83 west the lode—part carrying 4 ft. wide—is of a most promising character, and yields a little tin ore. In the 83 cast the lode is 4 ft. wide, composed of capel and quartz, with peach, blende, mundic, and a little tin ore. In Spargo's wince, sinking below the 75 west, the lode is from 4 to 5 ft. wide, of a very promising character, and yields good stones of tin over. There is no alteration at any of the other points of operation throughout the mine.

and a little tin ore. In Spargo's winze, sinking below the 75 west, the lode is from 4 to 5 ft. wide, of a very promising character, and yields good stones of tin ore. There is no alteration at any of the other points of operation throughout the mine.

LANGFORD.—T. Gregory, Oct. 25: We are clearing the 20, west of engineshatt, in order to examine this part of the mine, and ascertain the character of the lode, &c. We are able to go forward therein about 20 fms., where there is an accumulation of stuff from the backs above. This will be removed as fast as possible for a further advance. I have broken some of the lode at this point, which has a very promising appearance, being composed of soft quartz, beach, capels, and a little copper and mundic. The lode in the stopes in back of the 20 east, near Malachi's shaft, is worth full &2, per fathom. The pareled of silver-lead put in store has been sampled and assayed, which gives a produce of 55% per cent. for lead and 19 czs. for silver in its undressed state, as per certificate of assay sent you yesterday. Engine and pitwork working satisfactorily.

MELLANEAR COPPER.—John Gilbert, Oct. 24: We have most with some floors of spar and mundic in the 30 cross-cut, south of Gundry's shaft, which has made the ground a little harder for driving. The men are making fair progress in driving the 70 cross-cut north from the main lode, and the character of the rook is very similar to what it has been for some time past. We have cut the south part of the lode in the 30 cross-cut, ast of Gundry's shaft. It is 2 ft, wide, and yielding 1 ton of copper ore per fathom, but rather disordered with patches of killas; we shall open a level on it westward, where we expect to meet with an improvement. The lode in the 100, west of shaft, is 5 ft, wide, and still yielding 2½ tons of ore per fathom. In the 112, west of shaft, the lode is 6 ft. wide, yielding 1 ton of copper ore per fathom, and some saving work for tin. The iole in the 10c east of shaft, is 5 ft. wide, yielding 1 ton of copper or

west from the octom of the engine-main.

to begin with, in order to reach the main part of the lode. The lode is wide at this place.

MOUNTS BAY CONSOLS.—Wm. Argall, John Rowe, Oct. 20: No. 1 Lode: In the 20, driving west of new shaft, the lode has improved, worth 5f. per fm. In the 20, cast of Pengersick-lane shaft, the lode is worth 5f. per fathom. We have seven tribute pitches working in this lode. On the Nos. 2, 4, 5, and 7 lodes we have six tribute pitches working. In the cross-cut driving from the 10, at new engine-shaft, the ground is just the same as last reported.

MOUNT CABBIS.—W. Tregay, George Johns, Oct. 25: The engine-shaft will be at the 60 by the end of this month. The lode in bottom of the 50 is worth 25f. per fathom. We shot up here yesterday the finest rock of tin we have seen in any mine for many years. The carbons at the 33 is still producing some very good tinstone, and showing signs of improvement.

NEW CARADON.—N. Richards, Oct. 24: A part of the water-wheel is delivered on the mine, but the weather being wet the masons are not making the progress we wish in building, loadings, &c. I bought some of the pitwork, which I expect will also be delivered this week, and all necessary preparations are being made for fixing the same as early as the weather and the nature of the work will admit.

NEW KITIY.—W. Vivian, Oct. 25: Thomas's shaft is now down 17 ms, below the adit level on the course of the lode; lode about 3 ft. wide, producing tin, copper, and mundic. I see no reason to doubt but that this lode will prove productive when the depth is reached where it commenced to make the in the adjoining mines. The 50 driving east of engine-shaft; the lode at this point has an improved appearance

an improved appearance

NEW TERRAS.—J. D. Fraser, Thomas Edwards, Oct. 25: We have fixed our

pumping-gear, and are getting on with the erection of flat-rods, also the erection

of the stamping and pumping engine. We have been delayed a little in consequence of the foundry not being able to complete their work in time. Some

progress has also been made in sinking the new shaft on the rich lode mentioned

in our last.

of the stamping and pumping engine. We have been delayed a little in compequence of the foundry not being able to complete their work in time. Some progress has also been made in sinking the new shaft on the rich lode mentioned in our last.

NEW WEST CARADON,—N. Richards, Oct. 24: Nothing calling for special remark has taken place in the 38 cross-cut, driving south of Hallett's shaft, since reported on last week. Clymo's lode at this level, driving south of the little north lode driving west at this level. A stope in the back of the 49, on the main lode, will yield 1 ton of copper ore per fathom. Two stopes in the back of the 49, on the main lode, will yield together 2 tons of ore per fathom. NORTH BLUE HILLS.—B Bennetts, Oct. 24: There is not much alteration in the north lode below the adit since last reported on, it being about 1 it. wide, and containing occasionally some good tinstoff, sithough somewhat irregular. NORTH GREEN HURTH.—J. Polglass, Oct. 18: The ground in the deep adit cross-cut continues about the same. The south drive from deep level shows a little more vein occasionally, but upon the whole not much change. The level in the Hospital property is without change.

NORTH PENSITUTHAL.—Stephen Davey, Oct. 23: I am pleased to say we are breaking good stones of tin from the winze sinking below the 103; others without change. The new work is progressing satisfactorily, excepting the bob-plat, which has become a little harder than we expected.

NORTH TESKEREY.—Proyrand 8on, Oct. 13: The Nos. 1 and 2 tin lodes in the deep adit level east and west of cross-cut continue to look well. No. 1, west of cross-cut, is worth 172, per fathom for tin, and No. 2, 221, per fathom. These two tin lodes being all in whole ground throughout the sett must be considered a valuable property of itself, and we consider the discovery made here is quite equal to West Kitty at the same depth. Every preparation is being carried out for the purchase and erection of the winding-engine and steam-capstan, also the necessary work for

— Pryor and Son, Oct. 25: There has no particular change taken place in the underground department worthy of notice since our last week's report. The engineers are going through the minor parts of the \$9 in. pumping-engine and boilers, and we find that one of the latter will require a little repair, through long standing idle; this, as well as other trifling remodelling to the engine, is being carried out as fast as possible. The carpenters are engaged in covering in the air-compressor house, likewise the masons in making the communication from this to the engine-house; the smiths are making inciding-down boils for the air-compressor, and we hope to be able to send you the price for the winding-engine and steam capstan to-morrow for your approval or otherwise.

OKEL TOR.—H. Builford, J. Rodda, Oct. 25: The lode in the bottom of the new castern shaft continues to look well for tin, and we are making good progress in sinking. The 80 end, going east, is producing good work for arsenical and tin ores. The stopes in the eastern part of the mine the stopes are looking better. In the western part of the mine the stopes are looking just the same as for some time past. It being our setting on Saturday a full report will be sent you noxt week.

week.

PANDORA.—Oct. 25: The lode in the 45 west is improving, looking most
rormising for good ore shortly. Other points will bear out last week's valua-

PANDORA.—Oet. 25: The lode in the 45 west is improving, looking most promising for good ore shortly. Other points will bear out last week's valuation. I shall put alteration to crusher and jiggers in hand at once.

PARYS COPPER CORPORATION.—T. Mitchell, Oct. 25: The ground in the 90, east of the cross-cut, continues to look much the same as when last reported. The lode in the 90, west of cross-cut, is producing patches of copper ore, intermixed with sulphur and blende; this end does not present so nice appearance as it di'a few days ago, but still it looks kindly.

PENHALLS.—S. Bennetts, J. Gayne, Oct. 24: The 50 west end is without much change during the past week. The 70 cast end is worth 64, per fathom. The 60 cast end is producing low quality tinstuff. In the 93 cross-cut north the western section of the copper lode has just been passed through, and found similar to the eastern part, in addition to some small veins of tinstuff in the killas just under it, indicating the presence of a tin lode incar 2t hand. The Baidhu lode in the 42 west end is worth 64, to 74, per fathom,

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PENNANT.—Oct. 25: North Shaft: I am glad to say a great improvement has taken place; we have got into the carbonate, about 9 in. wide, with nice lumps of lead in it. We are busy dispatching stuff to the dressing-floors. FEN-YE-ORSEDD—R. Prince, Oct. 25: We have been hindered in the further extension of the cross-cut in the 168 in consequence of a flood of water, which will rapidly subside, we expect, in the course of a few days. The lode when last seen gave the strongest possible evidence of it turning out a most valuable one. In the 155 south cross-cut the ground is in our favour, and from what I saw in the forebreast this morning I think we must be close to the main lode.

when last seen gave the strongest possible evidence of it turning out a most valuable one. In the 150 south cross-cut the ground is in our favour, and from what I saw in the forebreat this morning I think we must be close to the main lode.

POLROSE.—W. Bennetts, Oct. 24: The shaftmen have sunk deep enough for a fork below the 122 as mentioned in my last report, and are now engaged putingin solilar at the 122, and some time this aftenoon they will commence to open a little east and west on the lode preparatory to dividing and casing the shaft and bringing down the steam-whim kibble to this level. After this work is accomplished we shall drive these two levels and the 112 east with all speed we are now down in a very favourable channel of ground for the production of internal—nine light killan. On the control of the contr

Imm glad to say the walling was completed to the depth sunk more than a week ago, so sinking has recommenced, and a joint aiready met with, which leads us to imagine we are close to the intersection of the cross locks. I am much pleased at being able to pen you this report, and think I am not too sanguine in my expectations. BOW.—William Rich, W. Williams, H. King, Oct. 24: There is no change to notice in the rise above the 32, east of King's sindt. The 60 end east is worth 62 per fathom. We have holed the rise in back of this level to the winze below the 7C, which has given good ventilation, and opened out ground for stoping. The 70 end east is worth 12L, per fathom respectively. The 60 end east is worth 7L per fathom. The 50 end east is worth 7L per fathom. The 50 end east is worth 7L per fathom. The 50 end east is worth 7L per fathom. The 40 end east is yielding stones of tin, and looks likely to improve. We have holed the rise in back of this level is worth 12L per fathom. The 50 end east is worth 7L per fathom east of the 70 end east is worth 7L per fathom of the 30; the lode is worth 12L per fathom east of the 60 end east is worth 7L per fathom of the 30; the lode is worth 12L per fathom east 9L per fathom. The 10L per fathom east 19L per fathom east 9L per fathom. The 30 end east is worth 15L per fathom. The 62 end east is worth 15L per fathom. The 62 end east is worth 15L per fathom. The 62 end east is worth 15L per fathom. The 62 end east is worth 15L per fathom. The 63 end east is worth 15L per fathom. The 64 end east 19L per fathom. The 64 end east 19L per fathom. The 65 end east 92

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che big cavity, is down 4 fms.; the lode is made up of locae stuff (ciay-siate and fead ore), worth 15 cwts. per fathom. We shall go down 3 fms. further, and then the composed of the composed of calcapar and lead ore of a promising character. The stope in the 23; west is worth 30 cwts. of lead ore of a promising character. The stope in the 23; west is worth 30 cwts. of lead ore of a promising character. The stope in the 23; west is worth 30 cwts. of lead ore of per fathom. The 205 cest is worth 2 cons of lead ore oper fathom. The 206 cest is worth 2 cons of lead ore oper fathom. The 206 cest is worth 2 cons of lead ore and 2 cons of lead ore per fathom. The 192 cast is going forward on a kindly lode, which is yielding good atones of lead ore. We shall be into a better lode in 2 to 3 fms. further driventhom. The 192 cast is going forward to worth about 20 cwts. of lead ore per fathom.—Tankerville Lode: The 232, going cast of shaft, is in a lode 2½ to 3 ft. wide, worth 25 cwts. of lead ore per fathom. We think we are only on a part of the lode here, and which is divided from the footwall portion by a horse of ground. Judging from the 230 cast, the two divisions of lode in question will be together in the 232, as the end goes forward towards the shale. The pitch in the 230 cast, the conduction of the lode here, and which is divided from the footwall portion by a horse of ground. Judging from the 230 cast, the two divisions of lode in question will be 200 west is worth 25 cwts. of lead ore per fathom. Other points without the 230 west, the conduction of the 10 cms. The 15 cms. Th

in the 50 cross-out, south of main lode, after which we shall resume clearing the same.

WEST OREBOR.—J. Andrews, Oct. 24: The lode in the 76 east has improved in appearance during the past week, and now yields good stones of ore. In the 78 west we are still driving by the side of the lode. The lode in the 62 west is 4 ft. wide, 18 in. of the north part of which yields good saving work for copper ore and mundic.

WEST GONAMENA.—N. Richards, Oct. 24: There is no particular change to notice in the main lode at the adds level driving west towards Hallett's cross-course since reported on last week, nor in Glipin's lode in the midway level driving east of main cross course, which is still yielding about ½ ton of copper ore per fathom. We are, however, almost daily expecting to get an improvement here.

relate bloom the To, which has given good ventualities, and opened out ground over control. He and I per fathorm. The stope in bank of this level is worth Hi, per fathorm. The stope in bank of this level is worth Hi, per fathorm. The stope in bank of this level is worth Hi, per fathorm. The stope in bank of this level is worth Hi, per fathorm. The stope in the stop in the stop of the stop in the sto

northward is very much easier for working than it is further south, the working expenses there will be proportionately lighter. We cannot speak too strongly in favour of our prospects in the direction we are driving, and the indications seen at Lewis's shaft justify us in urging a vigorous prosecution of the mines northward.

in favour of our prospects in the direction we are driving, and the indications seen at Lewis's shaft justify us in urging a vigorous prosecution of the mines northward.

WHEAL PEEVOR.—W. T. White, T. C. King, Oct. 14: Setting Report: Saturday last being our pay and setting day the following bargains were set to the men:—We have now completed the sinking of the engine-shaft to the 110, and have set the cross-cut to drive to the lode at 121, per fathom, which we hope to reach in the course of six or seven weeks, and then be in a position to report the cutting of a good lode at this point. The 100 to drive west on main lode at 51. 15s. per fathom. We are looking forward to an early improvement in the lode here, as we are now getting out of the influence of the flat lode. The 107 cross-cut to drive north to Great North Downs main lode at 54. 19s. per fathom. The 90 to drive west on main lode at 41. 19s. per fathom it lode producing stamping work for tin. The 90 to drive west on middle lode at 64. 10s. per fathom; lode worth 101. per fathom. The 60 cross-cut will cut this lode about 100 fms. west of the 100 cross-cut, and we consider these to be two very important points. We have cut through the cross-course north of Towan's shaft at the deep add level, and are now driving for Great North Downs deep cast of the same, and from the character of the ground we think we are very near the lode. We have set the men to drive at 44. 15s. per fathom. The lode in the new shaft sinking below surface on Great North Downs main lode is still opening up well, and, as we have before stated, cannot (we think) fail to lead to good results as depth is attained; price for sinking is 91. 10s. per fathom. The lode in the new shaft sinking below surface on Great North Downs main lode is still opening up well, and, as we have before stated, cannot (we think) fail to lead to good results as depth is attained; price for sinking is 91. 10s. per fathom. The lode in the new shaft sinking below surface on Great North Downs set of our stoping gro

breaking, drawing, stamping, and dressing, which we hope to have the benefit of in due course.

WHEAL UNY.—William Hambly "William Prophet, James White, Oct. 25: Fair progress is being made insi nking Hind's engine-shaft below the 193; the lode fully maintains its size and 's vourable appearance. There is no change in either of the ends since last reported. The machinery and pitwork throughout the mine continue to work well.

POTOSI GOLD MINING COMPANY.

POTOSI GOLD MINING COMPANY.

In the report prepared for presentation at the meeting on Friday next the directors inform shareholders that the working capital of the company together with the unsecured loan of 25,000. from Mr. Somes, having been entirely exhausted on the unprofitable working of the old Chile lode, and the partial development of the Peru lode, it became necessary in the early part of this year to provide fresh capitali in order to pay for the erection of the new mill at Peru, and also for opening out and working the Peru lode. An appeal was made to the shareholders to take up 50,000. on first mortgage, but this was very inadequately responded to, only 13,000. being subscribed by 98 shareholders out of a total number of 1455 then on the books of the company. The directors succeeded in placing 50001. additional with outside parties, 25,000. was subscribed by Mr. Somes, and the balance 70001. was taken up by the members of the board. This (with the exception of 50001, invested in names of debenture trustees) has been entirely expended on the new mill and works on the Paru Mine, in accordance with Mr. Pitzgerald estimate of 50,0001, May 5, 1852.

In April last Mr. Fitzgerald commenced opening out the New Chile Mine and constructing a gravity tramway to convey the ore to the mill. Further funds were required, and Mr. Somes again advanced an additional sum of 12,5001, on second mortgage.

In a pril last the strength of th

Nouveau Monde.—The report of the proceedings at the meeting in Paris on Sept. 28 just issued by the company contains a long historical report of the company from its commencement in 1850 to the present time. The accounts show cash in hand 22,000 frs. = 880l. The Nacupai and Berkshire Mines lately acquired by the company are reported to be very rich and promiting. The first resolution was:—"That the general meeting adopt the accounts rendered by the managing body up to Dec. 31, 1832, and that the meeting approve of the manner in which the managing director and committee have thus far fulfilled the trust reposed in them, and discharge them from the responsibility attached thereto." After proof and counterproof the resolution was agreed to unanimously. Messrs. the Viscound do Caze, de Barillon, Goirand de Rotembourg, and Castelli were elected as committee of inspection and supervision. And for the London committee Messrs. Arthur 5. Owen, Henry Levis, Heneage Taylor, and John Barker were appointed. It was unanimously resolved that the meeting decide upon an allowance of 100t. per annum to each of the members of the committee of inspection for their attendance, to be divided as the committee may direct, and that double this allowance be granted to the Chairman. It was further resolved that the meeting confirm the decisions of the general meeting taken on Jan. 31, 1878, with regard to authorising the issue of shares. In conclusion, the report states that a shareholder asked whether this did not amount to a confirmation of a resolution aiready adopted by vote, to which question he obtained an affirmative reply; but it was also explained to him that of the shares for which leave of issue is demanded, about 100,000 are destined to replace the old shares which have not been presented for registration (risa) in conformity with section 9 of the statutes, that these shares will no more turn up at all, while at the expiration of a resolution after proof where were given in exchange for them, will form an a set of the company NOUVEAU MONDE.-The report of the proceedings at the meet

From Mr. John B. Reynolds:—We are glad to be able to record that a considerable improvement has been observable in the general markets this week. There appears to be a very decided disposition to buy good securities, and a marked anxiety is shown as to the movements of leading houses with regard to the issue of loans, &c. Banks are receiving great attention, whilst railways have fluctuated, yet the disposition is to take a favourable view of their prospects. The decrease in traffic returns noticed in a few instances is the natural result of the rapid increases which have for many years been reported. The wonder is that the recases which have for many years been reported. The wonder is that the reaction has not come before. Nevertheless rails are high enough, and before any great activity can be noticed in the railway market in an upward direction there must, in our opinion, be a great reduction in prices. But his view should not influence holders to sell these securities. If, however, such fall does come they should immediately increase their railway investments.

Money still continues to be a drug, and this, it must be admitted, is not a favourable feature; but in the face of this metals keep up fairly well. Alarmist will again be proved in the wrong as far as the general appearance of the markets indicates. The frauds which have created a little sensation in the City have arisen through mismanagement, and if such mismanagement is permitted in other concerns we shall, of course, hear of further defalcations; but companies where the management is loose enough to admit of such purioning of money can easily be avoided, and if they are not avoided the people who patronise them will deserve to pay the penalty. The management of a company, as far as finance is concerned, cannot possibly be too strict, for the sake of both employers and employés. From Mr. JOHN B. REYNOLDS: - We are glad to be able to record

ANDERTON TIN.—The information received the last few days is highly satisfactory, and the evidence is increasing daily, showing that here there is going to be at a very early date a successful and profitable mine. The shares are in demand at enhanced price. All the prospects are most encouraging.

EAST BOTALLACK.—This mine is opening out remarkably well; monthly sales of tin are being made, which it is expected before long will cover cost of working, and at the 30 a small profit is expected, In sinking the shaft the lode continues its size and value.

TO THE METAL TRADE.

FOR COPPER, TIN, LEAD, &c., apply to-MESSRS. PELLY, BOYLE, AND CO., SWORN METAL BROKERS,

ALLHALLOWS CHAMBERS, LOMBARD STREET, LONDON. (ESTABLISHED 1849.)

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HENRY WIGGIN AND CO., (LATE EVANS AND ASKIN).

NICKEL AND COBALT REFINERS. BIRMINGHAM.

The Mlining Market: Brices of Aletals, Ores, &c.

AL MARKET LONDON OCT 26 1883

META	L MARKET-London, Oct. 26, 1883.
IRON. & s. d. & s. d.	TIN. £ s. d. £ s. d
Pig, 6MB, f.o.b., Clyde 2 5 0-2 5 11/6	English, ingot, f.o.b 96 10 0- 97 0 0
, Scotch, all No. 1 2 5 9	bars 97 10 0- 98 0 0
Bars Welsh, f.o.b. Wales 5 50-	refined 99 10 0-100 0 0
in London . 5 15 0	Australian 94 10 0
. Stafford., . 7 2 6- 7 5 0	Banca nom.
in Tyne or Tees 5 15 0- 5 17 6	Straits 94 10 0
Swedish, London 9 10 0- 9 15 0	COPPER.
Rails, Welsh, at works 5 76	Tough cake and ingot. 85 0 0- 67 0 0
Sheets, Staff., in London 8 10 3	Best selected 67 10 0- 68 10 0
Plates, ship, in London . 8 10 0- 8 15 0	Sheets and sheathing. 72 10 0-75 0 0
Hoops, Staff., 7 5 0	Flat Bottoms 75 10 0- 78 0 0
Nail rods, Staff., in Lon. 6 15 0- 7 0 0	Wallaroo 68 0 0- 68 10 0
STEEL.	Burra, or P.C.C 67 10 0
English spring 12 0 0-18 0 0	Other brands nom. 65 10 0- 66 10 0
cast30 0 0-45 0 0	Chili bars, g.o.b 61 17 6- 62 0 0
Bwedish, keg15 0 0	QUICKSILVER.
, fag. ham15 10 0	Flasks, 75 lbs., war 5 5 0
Rails at works 4 10 0- 4 15 0	PHOSPHOR BRONZE,
Light, at works 6 5 0	Alloys I., II., and IV £114 0 0
LEAD.	. VI. and VII 135 0 0
English, pig, common., 12 0 0-12 2 6	* XI., Duro A, Duro B 113 0 0
, L.B12 10 0-12 12 6	BRASS.
W.B12 15 0-12 17 6	Wire 63/d
" sheet and bar13 50	Tubes 9
pipe13 10 0	Sheets 714 -
,, red16 0 0	Yel, met, sheath, & sheets 5%-6%d.
,, white	
patent shot15 15 0	Tin-Plates.* per box
Spanish	Charcoal, 1st quality 1 1 0- 1 2 0
NICKEL.	2nd quality 0 19 6- 1 0 0
Metal per cwt	Coke, 1st quality 0 17 0- 0 17 6
Ore 10 percent, per ton	2nd quality 0 16 0- 0 17 0
SPELTER.	Black per ton 15 10 c
Silesian, ordinary brands 15 10 0-	Canada, Staff. or Gla. 1 12 0 0-
	at Liverpool
English Swansea15 12 6-	14 × 10
Sheet zinc19 0 0	
* At the works, ls. to ls. 6d, per box	less for ordinary: 10s, per ton less for

At the works, is, to is, 6d, per box less for ordinary; 10s, per ton less for Canada; IX 6s, per box mere than IC quoted above, and add 6s, for each X. Terne-plates 2s, per box below tin-plates of similar brands.

REMARKS.—Our markets opened in the same dull and uninterest-ing condition as characterised them throughout the whole of last week, but later on in certain metals there has been a rather better REMARKS.—Our markets opened in the same dull and uninteresting condition as characterised them throughout the whole of last week, but later on in certain metals there has been a rather better tone, and prices have assu med a stiffer tendency, and the speculative feeling has been rather more cheerful. However, these little spurts do not tend to create much co nofidence just now, they are known to arise merely from speculative causes, and not to be caused from influences affecting regular trade; and now that the time is thought to have passed for this year when any substantial recovery can be made in trade no importance is attached to the fluctuations that are made, and few are sanguine enough to look for permanent better rates. The cheapness of prices, however, must sooner or later form a stimulus to business, and they are just now well worthy of the attention of buyers both for consumption and for shipment. In many cases they are so low that they cannot well recede further to any great extent, while in almost all instances they are so cheap as to greatly minimise the risk of making losses. They are kept down from unusual causes, the principal of which is over-supply, and if this impediment was removed there is nothing whatever to prevent prices from advancing. Any combination on the part of producers to restrict the supply might bring about this result, and sellers it is well-known often do combine together to achieve this object as well as to keep up prices. In fact, in certain manufactured metals they are doing so at the present time, and although it would doubtless be more difficult for producers to unit together with the object of curtailing production, yet such difficulties might be overcome in face of the unprofitableness of doing business at current rates. There does not seem any probability of reduced supply just at present, but at the same time to continue profitableness of doing business at current rates. There does not seem any probability of reduced supply just at present, but at the same time to co

possible way. They have reduced wages, which has caused a good deal of ill-will and disputes between masters and men, and it must now be evident that it is not the minimising of the cost of production that is so much required as the actual entailment of the production itself.

COPPER.—The amount, of business doing in this metal has not been very large, but the tone has decidedly improved, and during the greater part of the week prices have stiffened daily. The movement has its origin from smelters having made tolerably large purchases, and operators, ever ready to push up prices upon the least symptoms of more favourable features, have used their influence to make the feeling more cheerful, and, temporarily at least, have succeeded in realising somewhat better rates. Prices of Chili bars showed daily advances of about 7s. 6d. per ton per day until yesterday evening, when there was scarcely so much strength manifest in the tone, and buyers began to draw off the market, and sellers were more ready to make sales, but to-day the market is again stronger by about 7s. 6d. per ton. It has now to be seen whether this little spurt is but a mere fluctuation, one of those advances which arise from no particular cause, and soon passes away, because it hath little or no foundation. It may be that holders will be able to support their prices for a time, but the permanency will depend chiefly upon forthcoming supplies.

Books are too heavy, and current prices so far have failed to check supplies. Unless producers are prepared to do their part in curtailling their output they must be content to make sales at low rates. They have every opportunity of realising fairly remunerative prices if they would be but moderate in their supplies, and keep them within the requirements of the trade. The deliveries are good and have been so for a long time past; speculators are not indisposed to come forward and give their needful aid in pushing up prices, but quotations cannot advance or rather be permanently maintained until suppliers do th

this week, reduced rates are not improbable, especially if the forthcoming statis-tics prove unlawourable.

IRON.—This market remains in much about the same condition as

this week, reduced rates are not improbable, especially if the forthcoming statistics prove unfavourable.

IRON.—This market remains in much about the same condition as it did a week ago, and a moderate business is doing in some descriptions of iron. In Wales prices keep steady, in Staffordshire they are somewhat stiffer, in the North a little easier, and in Soctland rather fluctuating. Last week we were able to report the damping down of 15 furnaces in Sociland, but this week's advices show that 10 of them have again been put into blast. It is difficult to upderstand what has induced makers to adopt this course, and the result will probably be that no better rates will be obtained, while even cheaper prices may have to be accepted. The relighting of these furnaces has not made much impression upon the public stock this week, it having swollen to a slight extent only; but at the same time this arises from exceptionally large shipments, and an extensive business doing this properties from exceptionally large shipments, and an extensive business doing this properties of the previous week, then there would in all probability have been an increase of some 4000 tons in the public stock. It is not skelly that the exports will be continued at such large figures as those of inst week, it would be unreasonable to expect it, more than 3000 tons than they were at the same time of last year; on the contrary, this excessive quantity would rather indicate somewhat diminished shipments for the next few weeks, and then if such proves to be the case stocks must again continue to accumulate, and then if such proves to be the case stocks must again continue to accumulate, and then if such proves to a understand the production, not merely for a week, but until sufficient time has elapsed to cause a marked reduction in existing stocks and then if such proves to a understand the production, not merely for a week, but until sufficient time has elapsed to cause a marked reduction in existing stocks and the production, not merely to th

the market during the week has been that the prices for forward the has been below those for cash, by which it seems that there is very little conficence existing in the continued stability of the market. In an ordinary way, it is easy to find buyers willing to pay an advance of 10s, or 15s, or, perhaps, a still greater difference for forward the above cash prices; but now they are reticent in paying 5s, per ton under current rates for sharp cash parcels. Why is this? It may be that it is known that several "bear" contracts are open which will shortly have to be covered, and, therefore, holders are maintaining the prices for cash parcels until those purchases are made. If this is not the cause, it becomes necessary to look outside the market for a reason for this musual occurrers.

cause, it becomes necessary to look outside the market for a reason for this smusual occurrent. It is not as though there was any scarcity in the stock of tin just for the time being. Nothing whatever can be gathered from the statistics to account for it. Supply and demand remain much on a par, stocks are light and fairly well managed, and, therefore, the reduced price for forward tin, compared with cash, cannot arise from the statistical position of the market. It may be that it is occasioned from the comparatively high value of this metal when taken side by sile with other metals, or, still more likely, it may be caused from the general dulness which pervades almost every branch of trade, from the vaceratinity of the future and from the fact that in leaving speculative influences and interests out of the question there is no real reason why in should be maintaitned at the present proportionately high figures. Operators may come forward as they have some in the past and support prices, and thus give very profitable rates to smelters; but otherwise there is no real and genuine cause why prices should be upheld when other metals are being reduced in value.

duced in value.

STRELL.—There is very little business doing in this metal, particularly in the North, where prices for rails are reported slightly

TIN-PLATES.—There is scarcely any variation in the state of the demand either for cokes or charcoals, but prices for both primes and vasters remain firm.

wasters remain firm.

SPELTER has been in more demand during the last few days, and a fair business has been done at market prices. We quote ordinaries at 15l. 19s., and specials at 15l. 15s. per ton.

LEAD is very dull, and Spanish is obtainable at 11l. 15s., and English is quoted at 12l. to 12l. 2s. 6d. per ton.

QUICKSILVER.—The official quotation remains 5l. 5s., but second-hand lots have been sold somewhat cheaper.

The settlement of the usual fortnightly account has occupied the

The settlement of the usual fortnightly account has occupied the chief attention of the dealers this week; but there has been a fair demand also for one or two mines in which discoveries or improvements have taken place, and they have given a better tone to the market generally. Those mostly dealt in have been Prince of Wales, Wheal Crebor, West Crebor, West Frances, West Kitty, South Devon United, Gunnislake (Clitters), Bratsberg, and a few others.

The continues dall, and no alteration has been made in the Standards for ore since the 6th. In Tio Shares there is very little doing, and prices are merely nominal. Blue Hills are quoted \(\frac{1}{2} \) to \(\frac{2}{3} \); Cara Brea, \(\frac{3}{2} \) to \(4 \); Cook's Kitchen, 14 to 16; Dolcoaths, \(63 \) to \(65 \); East Pool, \(38 \) to \(40 \); East Blue Hills, \(4s \), to \(6s \); New Kitty, \(1\frac{3}{4} \) to \(7 \); South Condurrow, \(8 \) to \(8\frac{1}{4} \); South Crofty, \(6 \) to \(7 \); South Frances, \(8 \) to \(5\frac{1}{4} \); West Kitty, \(13\frac{3}{4} \) to \(1\frac{1}{4} \); West Basset, \(3\frac{1}{4} \); Wheal Greeville \(6t \) \(6\frac{1}{4} \); Wheal Basset, \(3t \) to \(4\frac{1}{4} \); Wheal Greeville \(6t \) \(6\frac{1}{4} \); Wheal Rasset, \(3t \), Wheal Greeville \(6t \) \(6\frac{1}{4} \); Wheal Frances, \(5t \) to \(5\frac{1}{4} \); Wheal Lun, \(1 \) to \(1\frac{1}{4} \); Killifreth, \(27s \), \(6d \), to \(15s \); New Trumpet, \(1 \) to \(1\frac{1}{4} \); Mounts Bay, \(4s \), to \(6s \); East Lovell, \(\frac{1}{4} \) \(\frac{1}{4} \); Goodevere, \(1 \) to \(1\frac{1}{4} \). At Pedn-an-drea meeting the accounts showed a loss on four months' working of \(1348l \), and a balance against the shareholders of \(1677l \). A call of \(4s \), \(6d \), per share was made. The tin sold \((40 \) tons \) realised \(2154l \).

COPPER.—There has been a more active business in copper mines this week, and in one or two mines particularly. Prince of Wales.

COPPER.—There has been a more active business in copper this week, and in one or two mines particularly. Prince of Wales, Wheal Crebor, Bratsberg, and West Crebor have been in better demand. Bedford United, 1½ to 1½; Devon Great Consols, 2½ to 2½; Devon Great United, ½ to ½ . Devon Friendship, 2s. 6d. to 3s. 6d.; the operations progress as usual. Sortridge, 2s. 6d. to 3s. 6d.; the driving of the 40 cross-cut proceeds steadily, the ground being still of a congenial character. Mellanear, 3 to 3½; the directors have declared a dividend for the quarter of 6d. per share. Prince of Wales shares been in good demand from 5s. upwards, and leave off ½ to ½; the agent writes to the office of the company that from the discovery in the 102 west he broke and dressed 12 tons of solid copper ore of high percentage in five days, and at present there is no reek, and in one or two mines particularly. Prince of Wales copper ore of high percentage in five days, and at present there is no sign of falling off in the lode, but its value is rather increasing. The sampling this week is 70 tons of good ore, and the usual quantity of

week is 7 to 608 of 2500 ore, and the usual quantity of tin. Gunnislake (Clitters), 1\(\frac{3}{4}\) to 2. New Cook's Kitchen, 2 to 3.

Wheal Crebors have advanced to 2\(\frac{1}{2}\), 2\(\frac{3}{4}\); the 144, or bottom end west, has good ore in it, and is approaching the winze sinking below the 132, where the lode is worth 8 tons of good ore and 3 tons of mundic per fathom. The 132 east is worth 16 tons of copper ore per fathom; a stope in the back 10 tons. West Crebors have also been in demand, and leave off is, to 6s, buyers. The bottom levels look like coming into ore. South Caradon (Limited), par to 1 prem. New Caradon, 4s. to 6s.; New West Caradon, 2 to 1; South Devon United,

9s. to 11s.; West Caradon, 6s. to 8s. West Seton, 8 to 9; at the meeting the accounts were written up so as to charge everything to date, and there was consequently shown a debit balance of 7693l. 8s. A call of 2l per share (4800l.) was made. The copper sold for 715l. 5s.; 65 tons of tin, 3478l. This call will astonish many, but the alteration made is commendable. The report states that Michell's shaft is down 8 fms. below the 215, and the lode for 12 ft. long valued at 80l. per fathom. When another level is reached in three er four months, stoping will be commenced. Russell United, 1-16 to 3-16.

te 3-16.

LEAD mines continue flat, with very little business doing; prices, therefore, are merely nominal. Vans are quoted 4½ to 5. Great Laxeys are still weaker at 13 to 14. Roman Gravels, 6½ to 6½; Tankerville Great Consols, 2s. to 3s. The lode in shaft going down to the junction still looks well, and they are setting a stope in the back of 232, worth 2 tons per fathom. Coed-y-Fedw, 1½ to 1½; East Wheal Rose, 8s. 9d. to 11s. 3d.; Leadhills, 2½ to 2¾; Old Shepherds, 8s. 9d. to 11s. 3d.; Pennant, 4½ to 5; Pen-yr-Orsedd, ½ to ¾; Sinclair, 1 to 14.

To 1½.

FOREIGN MINES.—The amount of business doing is small, and prices have somewhat declined. Alamillos are quoted ½ to ½; Australian, ½ to 3; Bratsberg, ½ to ½; the settled produce of the bulk of the ore by the Mary Owen is 2½ per cent., and the price will be about 13½. 4s. per ton. The turbine and compressors have been set to work, and answer remarkably well. Broadway, ½ to ½; Cape Copper, 47 to 49; Chile Gold, ½ to ½; Chontales, 3-16ths to 5-16ths; Colorado United, ½ to 2½; Copiapo, 3½ to 3½; Devala Moyar, 3-16ths to 5-16ths; Eberhardt, ½ to ½; Fortuna, 3 to 3½; Frontine and Bolivia, ½ to ½; General Mining, 6 to 6½; Indian Consolidated, ½ to ½; Indian Glenrock, ½ to ½.

Kapanga, 1-16 to 3-16; La Plata, ½ to ½; Linares, 3½ to 3½; Mason and Barry to bearer, 13½ to 14½ ex div.; Mysore Gold, 1-16 to 3-16; New Emma, ½ to 1½; Nouveau Monde, 3-16 to ½. Organos, ½ to 1; we learn from an independent source abroad that the mine is at present about paying its expenses, and that it could do much better

1; we learn from an independent source abroad that the mine is at present about paying its expenses, and that it could do much better with more capital. Orita, \(\frac{1}{2} \) to \(\frac{2}{3} \); Panulcillo, 6 to \(\frac{1}{2} \); Potosi, \(\frac{1}{4} \) to \(\frac{2}{3} \); Richmon i, 5 to 5\(\frac{1}{2} \); Rico Tinto bonds, 100 to 102; ditto shares, 20 to 21; Ruby and Dunderberg, 1 to 1\(\frac{1}{2} \); South-East Wynaad, 1-16 to 3-16. St. John del Rey, 90 to 100; last month there was a loss of 1500\(\frac{1}{2} \). Tharsis, 6\(\frac{1}{4} \) to 6\(\frac{2}{3} \); Tolima, 5 to 6; United Mexican, 5 to 5\(\frac{1}{2} \); Victoria, \(\frac{1}{2} \) to \(\frac{2}{3} \); Western Andes, 5\(\frac{1}{2} \) to 5\(\frac{2}{3} \). Andes, 51 to 53.

The Market for Mine Shares on the Stock Exchange has not mainained the improvement noticed last week. This may be, to some extent, due to the settlement with which the dealers have been occupied, but is chiefly attributable to the rapid succession of exposures of fraudulent trustees and dishonest secretaries. It was remarked a fortnight since that only one mining secretary was absent, and, thus far, there has been no addition to the number. With regard to Granville Sharp, the shareholders in the concerns which he has victimized are even move to blame than he for their businesses. and, thus far, there has been no addition to the number. With regard to Granville Sharp, the shareholders in the concerns which he has victimised are even more to blame than he, for their businesses appear to have been most loosely conducted, and the now missing secretary was given an unlimited control of the funds, whenever there happened to be any. That mining secretaries are so seldom defaulters says much for their inherent honesty as a class, for it is but too well known that the secretary of a mine who does not deal in its shares to an extent to ensure their being quoted at a high price in the market is very quickly superseded. The shareholders look for profit from gambling in shares rather than from working the mines, and tacitly encourage their officers to gamble for and with them, the officers naturally stealing when their luck in the market is so bad as to exhaust their own resources. Mining, honourably conducted and handled as a commercial industry, yields enormous profit; but, when companies are carried on merely for speculating in shares to suit timid shareholders, the mines suffer from neglect, and are consequently unprofitable, and mining generally is loudly condemned by holders of mine shares who have never interested themselves in mining, nor given the enterprise a trial. In the result the reputation of sound and valuable properties suffers, and the shareholders lose their money. The Llangelynin Company, whose prospectus was published last week, is understood to have been a complete success, so far as the placing of shares is concerned, and they are already getting to work at the mines. A telegram from Manchester states that "fine samples of copper, blende, and lead have arrived at Manchester today (Friday) from the new discovery at Llangelynin. The vein is 9 in. wide, and continually improving; they are also raising graphite and graphitic clay." 9 in. wide, and continually improving; they are also raising graphite

and graphitic clay."

Our usual telegram from Cornwall this evening says:—The Cornish Our usual telegram from Cornwall this evening says:—The Cornish Mine Share Market during the week has been quiet, but prices have been fairly well maintained. Dolcoaths changed hands at 64; Carn Brea, 44; Cook's Kitchen, 18; East Pool, 394; Mellanear, 3; South Condurrow, 84; South Crofty, 5; South Frances, 84; West Basset, 4; Tincroft, 64; West Kitty, 144; West Feeton, 84; West Toigus, 9; West Frances, 43. The sensation of the week has been the defalcations of Mr. Granville Sharp, secretary at Wheal Jane, an incident likely to hasten reform in auditing Cornish mine accounts. Mr. T. S. Bolitho recently said the present system is a farce. At Pedn-an-drea account, on Thursday, there was a loss of 1350l. shown, and a call of 4s. 6d. made. At West Seton, held the same day, Bolitho's representatives insisted on a balance-sheet showing every item of liability, and no credits for anything not actually sold. The result was a debit balance of 10,000l. Adventurers generally approved of the course, and a call of 7s. 6d.

Some interesting American mining news is given by a reliable

squeed to a call of 7s, 6d.

Some interesting American mining news is given by a reliable New York firm, over the signature "Argus," in the Original Correspondence columns of to-day's Journal. Arrangements are pending for continuing the letter weekly or fortnightly, and as every care will be taken that the communications shall faithfully represent the questions involved it is hoped that the letters will prove an assistance and guide to British; capitalists connecting themselves with American mining enterprise.

Devon Great Consols, 2\frac{3}{2} to 3; according to the agent's report this week, the lode in Watson's shaft, sinking below the 100 ft. level, is yielding good copper ore and mundic, and is promising for a further improvement. The shaft is now down 7 fms, below the above level.

Devon Great United, \(\frac{3}{2}\) to \(\frac{3}{4}\); the 120 fm, east is being driven by the side of the lode, and in the west end the lode is producing 4 tons of mineral per fathom. The driving of the 104 fm west has been resumed, and is already producing good saving work for copper ore.

Drakewalls, \(\frac{1}{4}\) to \(\frac{3}{6}\); the agents report that the various operations have been pushed forward, and it is expected the produce will be over 10 tons of black tin for the four weeks' working.

over 10 tons of black tin for the four weeks' working.

Kit Hill Consols, \(\frac{1}{2}\) to \(\frac{3}{2}\); the ground in the Tunnel level has slightly improved during the past week, the drivage being 13 ft.

South Devon United \(\frac{1}{2}\) to \(\frac{3}{2}\); the report from the mine this week shows that the lode in sinking the shaft below the 110 is 6 ft. wide, and still continues to look well, being worth 20\(\frac{1}{2}\). Per fathom, and the 70 fm. level also shows prospects of an early discovery in driving westward at the Wheal Emma portion of the property.

Richmond, 5 to 5\(\frac{1}{2}\); the week's run was \$17,000 from 314 tons of ore with one furnace. During the week the refinery produced dor\(\frac{1}{2}\) bars to the value of \$20,000\). The superintendent's report upon the present condition and extension of the prospecting, deadwork,

the present condition and extension of the prospecting, deadwork, &c., for the week ended Oct. I states that the 1050 west drift from rise from intermediate drift has been run 19 ft. Total 39 ft. I red limestone. The 1050 winze from west drift on fissure has been sunk 29 ft. Total 29 ft. Stop-

Ruby and Dunderberg, l_{π}^{1} to l_{π}^{2} ; the opening out of the Home Ticket Mine, according to the weekly report, appears to be progressing well, and the ore is being followed down, the incline below 150 ft. level having been sunk 65 ft., from the bottom of which a drift had just been commenced to meet the ore body on this level. At the Lord Byron it was considered that the tunnel had been advanced nearly far enough to commence cross-cutting to come under the old surface workings, but a survey was about to be made to cal-culate the exact place to commence the cross-cut. California Gold, 13-16ths to 15-16ths; the mill run this week was

438 tons, yield, 660%; smelting ore sales, 360%; total, 1020%. The shaft is now down 1470 ft., and prospects there are reported to be altogether of a most encouraging character, the yield of ore being

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7 tons per cubic fathom. The eastern 1400 ft. level and stopes together are yielding about 12 tons of ore to the cubic fathom. A new rise is being put up in this level at 150 ft. from shaft for the purpose of blocking out stoping ground in the rich body of ore recently discovered.

Colorado United, 2 to 2½; the reports from the mine show considerable improvement in the output, the clean minerals sent to the buyers amounting to over 30 tons. The 13th level east is in a fine body of ore of good quality. The Fenton lode, which is being driven upon to form a junction with the Terrible is 4 ft. wide, with a good seam of rich mineral on the hanging-wall. It is understood that "the recent report upon the mine, made by Mr. Reuben Rickard, gives such a favourable account of the valuable course of ore transcript that the directors have been induced to take such prompt and immediate steps for the benefit of shareholders as will, when completed, without doubt be most satisfactory to them."

Kohinoor and Donaldson, ½ to ½; workmen are reported to be engaged in framing stations for the Champion tram, and the tributers at both the Donaldson and Champion are said to be making a satisfact oy output.

In Lead Mine Shares there has been an almost attern a beauty of the latter leaving a marging of 50-borse powers to be tillight for the latter leaving a marging of 50-borse powers to be tillight for the latter leaving a marging of 50-borse powers to be tillight for the latter leaving a marging of 50-borse powers to be tillight for the latter leaving a marging of 50-borse powers to be triblight for the latter leaving a marging of 50-borse powers to be triblight for the latter leaving a marging of 50-borse powers to be triblight for the latter leaving a marging of 50-borse powers to be triblight for the latter leaving a marging of 50-borse powers to be triblight for the latter leaving a marging of 50-borse powers to be triblight for the latter leaving a marging of 50-borse powers to a trible for the mining process. In the mining proce

factory output.

In Lead Mine Shares there has been an almost utter absence of business, and the few transactions which have taken place have been at a decline. Vans are quoted 4½ to 4¾, and the Great Laxey have declined to 13, 14. The price of lead continues without improve-

ment.

Tankerville Great Consols, \(\frac{1}{4}\) to \(\frac{3}{5}\); the agent's report this week shows that the new shaft at Pennerley is down 12 fms. below the 80, and is worth 3 tons of lead ore per fathom, and the winze below the level is in a lode 6 ft. wide, worth 4 tons of lead ore per fathom. Watson's engine-shaft is down 8\frac{1}{2}\) fms. below the 232. The vigorous pushing down of this shaft night and day is considered of the utmost importance, in order to get at the junction of lode to which the shareholders' attention has been frequently called, and it is urged that this cannot be done unless those shareholders who have not taken up their 10 per cent. preference shares do so.

Roman Gravels, 6\frac{2}{3}\) to 7\frac{1}{3}\; the 110 south is worth 3\frac{1}{3}\) tons of lead ore per fathom. The 95 south is worth 4\frac{1}{3}\) tons per fathom, and the 80 south 3\frac{1}{3}\) tons per fathom. Other parts of the mine continue to look equally as well as at the last general meeting.

Leadhills, 2\frac{1}{3}\) to 2\frac{1}{3}\; the various points of operation at the mines continue to look well, and progress is being made with the improvements at surface.

continue to look well, and progress is being made with the improve-ments at surface.

The liquidators of Overend Gurney and Co. (Limited) are about to make a further return to the shareholders of 10s, per share.

Notice is given that the thirtieth annual dividend of 6 per cent. per annum on the Norwegian Trunk Raliway Preference stock will be paid on and after Oct. 29 at the office of the London agents, Messrs. A. and W. Ricardo, Angel-

on the Norwegian Trunk Railway Preference stock will be paid on and after Oct. 29 at the office of the London agents, Messrs. A. and W. Ricardo, Angelourt.

Notice is given that Coupon No. 2 of the Royal Swedish Railway Company's Consolidated Obligations, due on Nov. 1, will be received for payment on and after Oct. 29, at the offices of the company in London.

It is notified that the Debentures of the Recile and San Francisco (Pernambuco) Railway Company (Limited), failing due April 39, 1834, will be paid off on that date, when all interest thereon will cease, unless the holders signify their intention to renew them on or before Nov. 30 next.

The Commercial Bink of Alexandria directors in their report to be presented at the annual meeting on Wed.esday, submit balance-sheet with profit and loss account for the year ended Aug. 31. After providing for all expenses including income tax, and making provision for bad debts, the amount of profit for the past year is 18,2314. 13s. including a balance of 12034. 13s. 3d. brought forward from last account. Deducting :664. 4s. 8d. for rebate of interest on bills not matured, and 60004, for the interim dividend paid on May 1 the directors propose to pass to the credit of suspense account against doubtful debts 30:02.; to pay a dividend of 1s. 6d. pur slance 500 L., making with the interim dividend 5 per cent. per annum, and to carry forward to new account 10535. 3s. 4d. The dividend will be payable on Nov. 14.

At the Stock and Share Auction and Advance Company's sale on Thursday the prices obtained among others were—United Ho-se Shoe and Nail Preference shares, 11s. 3d.; Suburban Land and Cottage, par; Imperial Union Accident Assurance 14. shares, 10s. paid, 1s. 3d.; Nation 1 Standard Land, Mortgage, and Investment 10l. shares, 21. paid, 25s.; London Necropolis and National Mausoleum 10l. shares, 22. paid, 25s.; London Necropolis and National Mausoleum 10l. shares, 22. paid, 25s.; London Necropolis and National Mausoleum 10l. shares, 24. paid, 25s.; London Necropolis and

tary of Herodsfoot Mine in place of Granville Sharp, absconded. The books, &c., have been removed to Mr. Wilson's office. All underground operations at the mine are to be suspended pending a rough inspection of the mine.

GAS SHARES.—The principal business in these shares, according to this evening's report of Messrs. W. L. Werb and Co., of the Stock Exchange and Finch-lane, has been:—Bombay (Limited), 6½, to 56; Babia (Limited), 23; British, 40½ to 42; Buenos Ayres New (Limited), 10½ to 11; ditto, 6 per cent. Debentures, 99 to 100½; Commercial Consolidated, 25½ to 264 ext div.; ditto, New Stock, 186 ext div.; ditto, New Stock, 186 ext div.; ditto, New, 91; ditto, New, 93; ditto, 189 and 72, 21½ to 20½; European, New, 19½; ditto, New, 93; disto, 189 and 72, 21½ to 20½; European, New, 19½; ditto, New, 93; disto, It 01 per cent. Pref., 226; 21½ to 264; ditto, 0, 10 per cent. Pref., 226; ditto, It 01 per cent. Pref., 216 to 217½; ditto, It, 7 per cent. Max., 144; ditto, 6 per cent. Debenture Stock, 149½; Monte Video (Limited), 15½ to 18; Ottoman (Limited), 4½; Oriental (Limited), 71½, 10 235½; Rio Janeiro, 24½ to 25; South Metropolitan, A, 272½ to 279; ditto, B, 231 to 235½. Gas stocks little changed. London companies firm, but Imperial Continental casier. INSURANCE SHARES have, according to this evening's report of Messrs. W. L. Werb and Co., of the Stock Exchange and Finch-lane, been dealt in as follows:—City of London Marine Insurance Corporation (Limited), ½ to ½; c. Commercial Union, 17½ to 18½; Firen Insurance Association (Limited), 1½ to 1½; Guardian Fire and 14fe, 62½; Insurance Association (Limited), 1½ to 1½; Guardian Fire and 14fe, 62½; Insurance Association (Limited), 1½ to 1½; Even Fire, 15½; Law Fire, 15½; Law Life, 113½; Lion Limited), 5½; Commercial Union, 17½ to 13½; Lion Limited), 10½; Commercial Union, 17½ to 13½; Lion Limited), 10½; Commercial Union, 17½ to 114; Lion Lidemity Marine, 149½; to 5½; Commercial Union, 17½ to 114; Lion Lidemited), 10½; Lion Limited), 10½; Commercial Union, 17½ to 114; Lion Lidemity Marine, 149½; to 5½; Rock Life, 8½; Standard Fire Office (Limited), 5½; Commercial Union, 17½ to 114; Lion Lidemited), 10½; Lion Limited), 10½; Lion Liviteral Marine, 16 Limited), 10½; Lion Liviteral Marin

RAILWAY AND GENERAL MARKETS.—Referring to the course of business done to-day during official hours (11 to 3) Mr. Ferdinand R. Kirk Birchinane, writes:—Opening: Grand Trunks are not very boyant, although the meeting yesterday passed off satisfactorily. The Ordinary are 19. to 19%, and the Thirds 48% to 48%, or much the same as last night. Unified are 70, being a recovery of \(\frac{1}{2} \). A slight reaction is apparent in American shares. Eries 31% to 31%, and 17% to 18, though to ordinary minds the return of the native Government to power seems far from a benefit for the bondholders. Bratberg, 25% to 23%; Chontales, 48, to 68; Orita, 10s. to 12s, 6d.; Californian Gold, 16s, 3d. to 18s. 91.; Eberhardt, \(\frac{1}{2} \) to 10 to 10

GOLD AND SILVER.—Mesers. PIXLEY and ABELL (Oct. 25) write:—Gold has been in demand since our last, and withdrawals from the bank have taken place to the extent of 7,0004. The orders have been for India, Buenos Ayres, and America, and it is not improbable that recourse will again be had to the Bank, ere long, for the States. The receipts during the week have been 58,8004. from Australia; 63004. from the Oape = 59,1004. The Handel has taken 100,0004. to Buenos Ayres, and the P. a..d O. steamer 35,0004. to India. Spanish orders for silver having been executed, the price of bars has slightly declined, the demand for the East not being very active at present. The nearest quotation we can give to-day is 50%4, per ounce standard. The imports since our last comprise 62,7504, from the River Plate: 24,0004. from the Pacific; 25,1004, from New York = 111,8504. The Para has taken 12,8904, to the West Indies, and the P. and O. steamer 81,0004, to India.

ARIZONA COPPER.—The report prepared for presentation to the shareholders states that the difficulty which has been experienced in carrying on the finance of the company is attributable solely to two causes—the restriction of the capital from 800,000%, to 750,000%, and the failure of the expectation that the bonds of the Clifton Railroad could be readily floated as separate marketable socurities if this company provided 100,000% to defray the balance of the cost of the line. Neither of these causes affects the real value of the company provided 100,000% to defray the balance of the cost of the line. Neither of these causes affects the real value of the company provided 100,000% to defray the company was based; if the property he worth what was anticipated, the practical reduction of the capital by \$5,000% implies no loss to the shareholders, and unless the 100,000% originally proposed to be expended on the railroad was to be regarded as practically lost, it follows that the 196,792%, which it was originally contemplated should take precedence of that sum as a debt guaranteed by this company, must represent equivalent value to the shareholders if the railroad is to become ultimately the unencumbered properly of the company. In providing, therefore, for these two items, which represent together 246,792%, by temporary obligations of a different character from those contemplated when the company was formed, the shareholders would undertake no new liability, they would only after the nature of the company. The directors are fully aware that criticism may be made on some of the minor items of the above statement; but these items are of no real moment at this juncture. The admitted difficulties attending the finance of the company have naturally occasioned a considerable amount of disappointment and distrust on the part of the shareholders. The directors do not desire to minimise these difficulties, but fully explain the exact position of the comorn.

Bratsberg.—The following satisfactory information has been received from the managers, under date Oct. 19:—"We have sent you to-day the following telegram:—'Turbine and air-compressor started yesterday; a perfect success in all respects.' Everything went without a hitch, full speed and pressure (63 lbs. to the inch) being attained, and the bearings did not even get warm. The turbine is, to say the least, a masterpiece of its kind. We worked the compressor to a speed of 180 feet per minute, equal to 96 revolutions of the turbine, with only three-fourths of the full power of the latter, leaving a margin of 50-horse power to be utilised for any other purpose. The perpendicular fall of water through the pipes is about 140 ft., and it is worthy of note that they hardly leaked a drop of water under the enormous pressure. It is not too much to say that you have here one of the finest air-compressing engines that can be found in any part of the world." The cargo of copper ore lately received by the Mary Owen has realised about 13t. per ton.

ISABELLE GOLD AND SILVER.—The ordinary annual general

received by the Mary Owen has realised about 13t. per ton.

ISABELLE GOLD AND SILVER.—The ordinary annual general meeting of shareholders was held at the offices of the company on Oct. 17 (Right Hon. Earl Poulett in the chair). The Chairman moved that the directors' report and the balance-sheet be read and adopted. Mr. J. O. Surtees seconded the motion, which was put to the meeting and carried unanimously. This concluded the business of the ordinary meeting. The meeting was then made special and the resolutions, of which previous notice had been given to the shareholders, were proposed and carried unanimously. A cordial vote of thanks to the Chairman and directors terminated the proceedings.

D'ERESBY MOUNTAIN.—A new shaft has been commenced from surface through the old men's workings, which will come down in the centre of the present stopes in No. 6 level, and be continued in a fine course of ore. The completion of this work, which is expected to take four months, will it is believed at once place the mine in a profitable position even at the present low price of lead,

THE VALUABLE MINES AND EXTENSIVE PLANT OF MACHINERY ADJOINING MR. BEAUMONT'S FAMOUS MINING PROPERTY IN ROOKHOPE.—These were referred to last week as being advertised in the Mining Journal for sale. It is understood there is likely to be considerable competition for them, the mines having already made large returns. Oct. 30 is the last day for tenders to be sent in.

West Seton:—At the meeting on Thursday (Mr. T. Pryor in the chair) the accounts were thoroughly overhauled, and it was shown that the aggregate debit balance is now 7693l. The Chairman remarked that the shareholders might be somewhat startled at first chair about the chair and the remarked that the shareholders might be somewhat startled at first sight; but when they came to consider the statement, they would arrive at the conclusion that in charging up every known liability to the end of September, and not crediting anything unsold they had adopted the best course. The labour costs had been charged up as close as they could bring them, and the merchants bills were also charged to the end of September. These bills were exceptionally heavy, as they included not only a large consumption of coal, but also the cost of the new skip-road for drawing up the men, the recairs of the boilers, and also a new lift in the bottom of the mine. These items represented a large amount. The credits, also, only showed what had actually been sold and delivered. Last week 50 tons of copper were sampled, and the price of a greater part of it had been gradit, and nothing of this had been credited to their account. They had always been in the habit of crediting arsenic on account, and the tin account had been treated in the same way, so that nothing what were was credited but what was actually sold and delivered. These facts showed the figures apparently in a rather gloomy aspect, but he was satisfied that the mine and all connected with it would stand better by adopting the course referred to. The actual loss on the four months' working was 1400L, but this would not have been so heavy had not several causes occurred in the working of the mine. A call of 4L per share was proposed, but it was ultimately determined to make it 2L per share, payable in two instalments, on Nov. 24 and Jan. 19 respectively. respectively.

respectively.

PEDN-AN-DREA.—At the meeting on Thursday (Mr. R. S. Teague in the chair) the accounts showed a loss on the four months' working of 13484. 16s. 5d. A call of 4s. 6d. per share was made. Mr. J. Olford asked if there were no other ends worth driving besides the 100 west. Capt. A. J. James replied that at present he did not consider it advisable to drive other ends till they met with the run of tin ground in the 100 west; 100 east suspended. Mr. Hosband asked what had been the value of the 100 end between the present part and the rise. Capt. A. J. James said it varied materially. In reply to Mr. Abbott, Capt. James said they were now making a profic out of the ground worked on tribute. The stuff stampes are more making a profic out of the ground worked on tribute. The stuff stamped averaged about 56 lbs. to the ton. Mr. Husband, in proposing a vote of thanks to the committee (Capts. A. J. James, J. Bray, and D. W. Bails) for their value able services during the past four months, and with a request that they would continue their services for another four months.

WHEAL CREAGE.—The meeting will be held on Nov. 15. and as

WHEAL CREBOR.-The meeting will be held on Nov. 15, and as Wheal Crebor.—The meeting will be held on Nov. 15, and as the accounts for the four preceding months will show a profit of about 1500l., a dividend of 2s. 6d. per share will be declared, leaving a surplus balance of upwards of 1100l. This dividend is equal to 15 per cent. per annum. This week's report on the mine, which appears in another column, is the best that has been received for many months past. The lode being driven on at the 132 east is yielding 16 tons of good copper over fathom. The winze sinking below the 132 west is yielding 5 tons per fm., and the 144 end will very shortly be driven under this winze, where the lode is expected to be found equally productive as the winze. The 48 east is yielding 2 tons of ore and 3 tons of mundic per fathom, and the drivage is evidently akimming the top of a new bunch of ore, and as this level is far in advance of any other of the eastern levels, the importance of this point cannot be overrated. The aggregate value of the ends, winze, and stopes for copper ore is 48 tons per fathom, and for mundic 17 tons per fathom. Crebor is now considered to be the best copper mine in England.

GLASAGOW CARADON.—At the meeting in Glasgow two special re-

be the best copper mine in England.

GLASGOW CARADON.—At the meeting in Glasgow two special resolutions were agreed to. The first of these proposed to increase the capital of the company to the extent of 4000l., divided into 4000 shares of 1l. each, the shares to be preferable, both as regards capital and dividends; the dividends cumulative, and at the rate of 7 per cent. on the paid-up amount of the shares, it being also provided that these shares shall, in the option of the directors, be redeemable at par, with a bonus of 5 per cent. within five years of the date of issue. The second resolution gave the directors power to dispose of the proportion of the new shares created in 1865 in such manner as would prove most beneficial to the company.

RAILWAYS IN NEW SOUTH WALES.—The material progress of the Colony is not inaptly represented by the rapidly increasing mileage of railway. The total number of miles of railway in New South Wales at the close of 1882 was 1315, against 995 miles during the previous year. There are also 504 miles in course of construction, and the numerous routes for other lines are being surveyed. This is no mean achievement for a country containing less than a million inhabitants. million inhabitants.

A LOST CITY OF MEXICO.—Ancient ruins, which surpass anything of the kind yet discovered on the American Continent, have been found in Sonora, about 4 leagues south east of Magdalena, Mexico. There is one pyramidiwhich has a base of 4350 ft., and rises to a height of 750 ft. It has a winding roadway from the bottom leading by an easy grade to the top, wide enough for carriages to pass over, which is many miles in length. The outer walls of the roadway are laid in solid masonry from huge blocks of granite in rubble, and the circles are as uniform and the grade as regular as could be made at this date by the best engineers. To the east of the pyramid a short distance is a small mountain about the same size and rising to about the same height. On the sides of this mountain a rising to about the same height. On the sides of this mountain a people of an unknown age have cut hundreds upon hundreds of rooms, from 5 by 10 feet to 16 or 18 feet square. These rooms are cut out of solid stone, and so even and true are the walls, floors, and ceiling, so plump and level, as to defy variation. There are no windows to the rooms, and but one entrance, which is always from the top. The rooms are 8 ft. high from floor to ceiling. On the walls are numerous hieroglyphics and representations of human forms, with feet and hands of human beings cut in the stone in dif-ferent places. Stone implements of every description are to be found in great numbers in and about the rooms. It is, of course, a matter of much speculation as to who the inhabitants were, and in what age they lived. Some say they were the ancestors of the

Mayos, a race of Indians who still inhabit Southern Sonora, who have blue eyes, fair skin, and light hair, and are said to be a moral, industrious, and a frugal race of people, who have a written language and know something of mathematics.

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To SUPPLY and PUT DOWN MACHINERY of about 80-horse

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To SINK DOWN the SHAFT (which is at present 120 metres deep) to 300 metres. And also to DRIVE a CROSS-CUT GALLERY about 40 metres in length from the 300 feet level.

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The President—W. EHLERS.

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40 Great Holway.
40 Parys Corpora, 2s. 9d.
41 Parys Corpora, 2s. 9d.
42 Ruty, £1 7s. 6d.
45 Y.
41 Tills, 9d.
45 Pestarena, 3s. 3d.
46 West Caradon, 6s.
47 11s. 9d.
48 Parys Corpora, 2s. 9d.
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40 Esterna Andes Gold,
45 Y.
40 West Caradon, 7s.
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ESTABLISHED 1868. MESSRS. CUNLIFFE, ENTWISLE, AND CO., FINANCIALISTS, MINING AND CONSULTING ENGINEERS, MINERAL ASSAYERS, STOCK AND SHARE BROKERS, T7, BLOOMSBURY, OXFORD STREET; AVD S, UPPER BROOK STREET, MANCHENTER.

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Advice as to Working given.

J. S. MERRY, ASSAYER AND ANALYTICAL CHEMIST, SWANSEA, SUPPLIES ASSAY OFFICE REQUIREMENTS AND RE-AGENTS.

Notices to Correspondents.

EXERTITITIONS FOR THE IMPROVEMENT AND STUDY OF MINING IN THE UNITED KINODOM.—Several correspondents having enquired for a list of the above, secretaries or members are requested to forward to the Editor names of the institutions to which they belong, and brief details, that a list may be published in the Mining Journal. Particulars should be sent before Oct. 31.

SHARE PURCHASES—"8. G. P." (Ilfracombe).—As we never deal in shares nor recommend brokers—it would be unfair considering the number of brokers' and dealers' advertisements on the front page—we can give no opinion in the matter. You must understand, however, that it is not always possible to obtain delivery of shares at the price at which they are advertised. As to the assertion that the mines are worthless, it might be replied that they undoubtedly contain immense quantities of rich ore, and modern engineering knowledge ought to enable the adventurers to obtain it at a profit.

ADDERSE—"J. F. B." (8t. Anne's-on-the-Sen).—We have never known any other

ADDRESS—"J. F. B." (8t. Anne's-on-the-Sea).—We have never known any other address for the gentleman than that which you give. It was stated a few months since that he was retiring from business, and beyond the fact that for about 30 years he has always paid his accounts for advertisements most punctually, we know nothing of his financial position. Our business being strictly confined to the publication of the Journal, we could not undertake the detective duty you suggest. A letter addressed to the care of his successor, at his former address, would no doubt receive attention.

CHALT. SULPHUR MUNIC. SEATUREST HOS ORE—"W. D. K." (Camelford).—

Conair, Sulphur Mundic, Spathose Iron Ore—"W. D. K." (Camelford).—
We have received no reply as to your enquiry for price of cobalt ore. Sulphur mundic, if over 50 per cent. sulphur, is readily saleable; probably Liverpool would be the best place to send it to. Spathose iron ore if of good quality can be sold in most iron manufacturing districts. The price would of course depend upon its purity. It would have to be quoted free at the works where it is to be used.

depend upon its purity. It would have to be quoted free at the works where it is to be used.

Competitive Thial of Pulverisers.—You have made a slighterror in our letter published in last week's Journal. It should read—"As the results are printed we appear to have ground 7 lbs. of this to the ton of coal less than the first, whereas if the amount of one hour's coal had been taken out we should have stood nearly 2 grs. (not 2 ozs., as printed) of this to the ton of coal ahead of him; and seeing the poorness of the stuff ground, this is a substantial difference. In the face of all this the committee placed another machine first, and ours second."—F. Dimer and Son: Trure Penadry.

Valuation of Ore—"F. A. S." (City).—It is mechanically and mathematically impossible that a square fathom can be the basis of valuation—square measures can only measure superfices. A cubic fathom is evidently the unit intended, but it would be unjust to suppose that American mathematicians consider squares and cubes identical. The expression: "worth—tons per fathom square" would be admissible, but not desirable.

Indian And Bandhursher Gold Company.—Will some correspondent kindly fur-

Indian and Bandhurst Gold Company.—Will some correspondent kindly furnish me through the next Journal with the name and address of the official liquidator of the above company? I am an original shareholder in the company, but have not had a line from anyone since the last quarter's dividend was paid. Is this right and legal in the officials?—R. E. T. M.

pany, but have not had a line from anyone since the last quarter's dividend was paid. Is this right and legal in the officials ?—R. B. T. M.

Wheal Benny.—As I cannot find the name of this mine in the official statistics, and as it is inerely stated to be in Cornwall in the Mining Journal Share-list, will some correspondent kindly state through the Journal what district the mine is in, how many men are employed, how much mineral, and of what kind has been risled and sold during the past six months, and how many shares have been issued to the public? I should also be doubly gratified to learn where a market for shares could be found?—VERITAS.

Received,—"T. J. D." (New York: Replied to by post—"R. and K." (Amsterdam): The mineral statistics for 1822 are not yet ready, but are promised in a week or a fortnight. They are this year being prepared at the Home Office, and will be issued as an ordinary Blue-book —"Enquirer" (Home Mines Trust): The offices are at 8, Old Jewry. The amount paid and price are published in the Journal every week—"W. H. F." (Potosi): Your lettee was evidently written before the issue of notice of meeting. Everything depends upon the proper interpretation of the adverse telegram—"R. M." (Keld): The fluctuation is no doubt due to market operations—"V. W. and O." (Fishguard): It does not always follow that because shares are advertised at a price delivery can be obtained at the price asked—"W. M. C." (Santa Cruz): The letter which you sent from North Carolina for publication is withdrawn, as you desire; but we do not, under any circumstances, return manuscripts.

THE MINING JOURNAL,

Bailway and Commercial Gazette.

LONDON, OCTOBER 27, 1883.

COLLIERY EXPLOSIONS.

During the last few days two serious explosions have taken place in coal mines, in which a number of valuable lives have been sacrificed, and at the same time causing a heavy loss to the owners. A great deal of late has been said by those now agitating for miners' wages being advanced up to the large profits made by colliery owners. Whilst these fabulous statements have been sown broadcast for the purpose of making the workmen dissatisfied with their position nothing whatever has been said as regards the risks attending the capitalist who invests his money in call mines. In collidates were Whilst these fabulous statements have been sown broadcast for the purpose of making the workmen dissatisfied with their position nothing whatever has been said as regards the risks attending the capitalist who invests his money in coal mines. In collieries every known precaution may be taken to prevent an accident from falls or explosions, but despite all these they will and do take place. At the Wharnoliffe Carlton Colliery, near Barnsley, where every scientific appliance, and the best mechanical power known have been brought into requisition, there was an explosion early on Friday morning, resulting in a loss of 20 lives. No colliery in England is better equipped for working and ensuring the safety of the men employed than the Wharnoliffe Carlton, whilst it has a most excellent staff, under the control of Mr. J. MITCHELL, yet with all these advantages there was an explosion during the night shift, with its attendant loss of life, such as we have described. Considerable discussion has taken place, even amongst mining engineers, as to the probable cause of the explosion; but one would have thought that this was unnecessary, seeing that during the night shift blasting was carried on. The coal was certainly not brought down by blasting, but in driving through stone powder had to be used, and it was this, there is no doubt, that led to the carastrophe. Fortunately during the night shift only some 25 persons went down the pit, otherwise the loss of life would, of course, have been much heavier. Up to Monday morning it was not expected that there was any fire in the pit, for the ventilation was kept up well by means of a powerful Guibal fan capable of giving from 200,000 to 250,000 cubic feet of air per minute. However, whilst the coroner's enquiry was proceeding, and as we were conversing with Mr. Wardell, the Government Inspector of Mines, as to the probability of the bodies of the three men in the mine being recovered that night another explosion took place. This was a great surprise indeed, and a rush was at onc

This is a new and unexpected phase, for all admitted that there must be a standing fire more than a mile from the bottom of the shaft, although a contrary opinion previously prevailed. A consultation was then held amongst the officials, mining engineers, colliery tation was then held amongst the contents, mining engineers, contents, managers, and the two Government Inspectors, when it was decided that only one course was open for extinguishing the fire, and that was to swamp it out by means of water, or in other words, to flood was to swamp it out by means of water, or in other words, to flood that part of the mine where the fire was known to exist. Several views were put forward as to where the water was to be obtained from, but the opinion prevailed that by taking out a segment of the tubbing in the shaft there would be a plentiful supply without any difficulty. It was also suggested that by means of flexible pipes the water could be taken to the vicinity of the fire and poured on to it. However, the flooding of that part of the mine where the fire is has become a necessity, and whilst it will throw some hundreds of men out of work, it will be a most costly matter for the Messrs, CRAIK, who, we are informed, are not included in that enviable category of fortunate colliery owners who are said to have made immense profits fortunate colliery owners who are said to have made immense profits

during the present year.

The Leycott Colliery, in North Staffordshire, was again the scene of another explosion, involving a loss of six lives. This time it was owing to a fire in the goaf, which had been going on for some time, but it was allowed to continue until the workmen refused to go down, so apparent was the danger. However, men from some of the adjoining pits were induced to go down the pit on Sunday for the purpose of building off the main roads from the seat of the fire. Work was carried on until about eight o'clock in the evening, when year.

there was a slight explosion, which did not appear to do much damage. Shortly afterwards, however, the air no doubt reaching the gas, a second and, as stated, a terrific explosion took place, killing Mr. Kirkwood, the mining engineer; Mr. Leek, the underviewer; Thomas Webb, a deputy; and three other men. There was here, as at Wharnclific Carlton, every indication that a strong fire was raging in the workings. Nothing therefore remained to be done but to smother the fire, and on Monday the filling up of the upcast shaft was began. The bodies of the six men killed have not been recovered, and some time will elapse before the pit will be in a condition to allow of a search being made for them. In this case, however, it is evident that not sufficient attention was paid in the first instance to the fire which was known to exist in the "gob," its importance, as usual, not having been recognised. There is here another instance of that over confidence that has resulted in so many fatal disasters. A fire, be it ever so small, in a mine is always dangerous, but to allow it to increase in volume is something worse than a blunder.

At the enquiries in connection with both the Wharncliffe Carlton and the Leycett disasters the Home Office will be represented, and we may expect that all the particulars will be brought out with respect to them, when we shall probably have something more to say on a subject which is alike of importance to mineowners and miners.

ROYAL GEOLOGICAL SOCIETY OF CORNWALL.

The members of the Royal Geological Society of Cornwall may well be congratulated upon the success of their seventieth annual meeting, which has just been held, for the society shows increasing vitality, and matters of paramount importance for giving Cornishmen such a knowledge of the science which bears most directly upon the principal industry of the county continue to be brought forward at its meetings. Referring to a subject which at the presentime is attracting principal industry of the county continue to be brought forward at its meetings. Referring to a subject which at the present time is attracting much attention, the President—Mr. Leonard H. Courtney, M.P., Financial Secretary to the Treasury—remarked that if we put togegether the investigations and discoveries of geologists, we see that even now the earth was possessed of a subterranean force working outward, in some places constantly, in others intermittently, with very slight periods of rest. The dead earth was still living. What was supposed to be immovable was in a state of flux; what was supposed to be rigid and permanent was liable to perpetual changes. But what he had stated was not, of course, in its application confined to mere earthquakes or volcances. We had even in our own country evidence of internal heat in hot springs, to which people resorted for purposes of health, and which had been known for thousands of years—springs which were remarkable as being so far distant from for purposes of health, and which had been known for thousands of years—springs which were remarkable as being so far distant from the centres of volcanic energy, and which yet showed that under the surface there might be something of the same volcanic action perpetually going on elsewhere. If they inspected a series or physico-geological maps they would see the world was now enringed by volcanic action; while, if passing into remote antiquity they were to see the evidences of the forces that had existed and had manifested themselves, they would find that there was scarcely a part of the world which was not studded over with the signs of past eruptions, all of which could be recognised by the skilled, and, ineruptions, all of which could be recognised by the skilled, and, in-deed, by the unskilled geologist. The investigation of the causes of these phenomena would lead into very considerable labour, and he was happy there at all events to be somewhat on the same platform with the geologist proper, because he believed geologists themselves were unable to give any complete explanation of the causes of the

phenomena in question.

But there was one thing, continued Mr. Courtney, which, apparently, they must dismiss altogether—the notion which prevailed at one time that, underlying a comparatively thin crust of the earth, there was found nothing but a great mass of molten fluid; that the earth itself was a crust surrounding this thin, fluid mass. The suggestion was at first sight plausible because it explained so many of gestion was, at first sight, plausible, because it explained so many of the phenomena of volcanoes, hot water springs, and earthquakes with which we were familiar; but it was demonstrated as a mathewith which we were familiar; but it was demonstrated as a mathematical problem that such could not be—that, even with a rigid shell, the pressure of the movement of the fluid matter within such a thin crust, consequent upon the variation involved in the movement of the earth around the sun, would make it impossible to maintain the equilibrium of the whole. They must, therefore, dismiss that hypothesis for that reason as absolutely convincing and demonstrative. But the other suggestion which now appeared to find favour with geologists—that the earth, although solid, was, at points of extreme tension and pressure, liable to become fluid and hot on the least alteration of the pressure against the thick rind of the earth—seemed to be the best explanation of the different phenomena of movements of the earth and the effects of volcanic action with which we were familiar. But whether we adopted the one cause or the other, we arrived at the same feeling with respect to the earth itself—a feeling passing away from that older one to which he referred at the outset, and recurring to one to which the ancient Greeks gave utterance in their legend in which which the ancient Greeks gave utterance in their legend in which they explained the tremors of the mountain of Ena—that some huge giant who had been overthrown in a war with the gods had been put into prison below the earth, and his attempts to escape

huge giant who had been overthrown in a war with the gods had been put into prison below the earth, and his attempts to escape produced the earth, We had within the globe a giant who was perpetually attempting to break forth, and who did break forth, but at the same time the extraordinary balance of forces which we saw in every part of Nature resulted in an equilibrium which allowed us to pursue our daily work, though we are convinced that there was a perpetual movement of nature around us.

The present financial condition of the society is undoubtedly good, and the reports of the treasurer, curator, and librarian were encouraging. The Science Classes, under the guidance of Messrs. Barnett and Corin, are making good progress. A specimen of Trowlesworthite—a rock believed to be quite new to petrologists—was presented by Mr. R. N. Worth, F.G.S., of Plymouth, who so named it from the place where he found it in August last—Trowlesworthy Tor, on the skirts of western Dartmoor. In a note accompanying it Mr. Worth said one loose block, and only one, was found. The Tor is a mass of red granite of varying shades, which had been quarried for ornamental purposes. The block of Trowlesworthite he took to be a fragment of a vein traversing the granite. It resembled Luxulyanite in being mainly composed of tourmaline and felspar, but the difference was even more material—the presence of violet fluor spar. Moreover, the felspar, which is flesh colour in Luxulyanite, in Trowlesworthite is a rich red; and this contrasting with the velvety black of the tourmaline and the deep violet of the fluor spar, makes it a rock of rare and singular beauty. The occurrence of fluor spar in association with granite is not a new discovery. Dr. Boase noted it many years since in the Hensbarrow boss, and it occurs also in china stone. Trowlesworthite is not, covery. Dr. Boase noted it many years since in the Hensbarrow boss, and it occurs also in china stone. Trowlesworthite is not, however, granite—hardly granitoid by courtesy. The mica, which is one of the invariable components of true granite, is absent alto-gether, and the quartz is present only in very small quantity. Mr. Worth also put on record the discovery of a small boss of

granitoid rock chiefly felspathic, with needles of schorl just on the verge of the ancient limits of the county of Cornwall, on the eastern side of the Tamar, near King's Tamerton and St. Budeaux. With reference to his note of the discovery of gneiss in the Shovel Rock, in Plymouth Sound, read at the society's meeting in 1880, Mr. Worth wished to state that evidence has since been obtained which negatives that there is any gneiss in any portion of the reef on which the Breakwater Fort is built. The historical evidence of the correct assignment of the specimens to the reef remains, however, unshaken, and a careful examination of the shores of Plymouth sound, while and a careful examination of the shores of Plymouth sound, while failing to reveal any direct traces of the evidence of granitoid or gneisses rocks in situ there, has shown in addition to the "contortions and displacements" of an upheaving force close at hand, just such evidences of metamorphic action as we should expect to find on the hypothesis of the gneissic character of that part of the Shovel Rock. Mr. Worth associated this with the granitoid rocks of King's Tamerton and St. Budeaux, because each seemed to him a link bytesset the granito highlands of Commelland Dayse and the

officers, and the announcement that Mr. Warington Smyth, M.A., F.R.S., had consented to resume his old post of President was received with loud applause, and Mr. Warington Smyth having taken the chair said he cherished most grateful memories of his former

the chair said he cherished most grateful memories of his former presidency, and hoped in the next two years to have opportunities of again meeting the members. Therestill remained many unsolved problems in the geology of Cornwall, and very happy would he be to help any student who, with the aid of the library and museum, would attempt the solution of some of them.

Mr. Leonard Courtney was elected a vice-President; the treasurer, librarian, curator, secretary, and the assistant librarian and curator were re-elected, and Mr. G. J. Smith, Camborne; Rev. J. Tonkin, Mr. M. Magor and Prebendary Hedgeland were elected to fill vacancies on the committee. It was stated, in reply to Mr. T. S. Bolitho, that the Council would during the year consider the question of bringing the various scientific societies in Cornwall into closer relationship, a project the advantage of which cannot be too highly commended to the favourable consideration of all interested in the promotion of science in the county.

THE FAIR TRADE THEORY, AND THE COBDEN CLUB TESTS.

TESTS.

The lamentably depressed condition of the metal trades, against which our miners have had so long to contend, has led many of them to suggest an immediate return to the old system of Protection, and although it was at once pointed out in the Mining Journal that such a retrogression was altogether impracticable, and, even in the interests of the miners themselves, undesirable, it is as well that the arguments of the advocates of the Fair Trade Theory should be thoroughly understood, in order that such of their suggestions as are worthy of consideration should be earnestly supported, quite irrespective of political opinions or of belief or otherwise of the advantages of Free Trade as a principle. The Chairman of the Executive Committee of the National Fair Trade League (Mr. Sampson S. Lloyd) has carefully expounded the principles of the organisation. tages of Free Trade as a principle. The Chairman of the Executive Committee of the National Fair Trade League (Mr. Sampson S. Lloyd) has carefully expounded the principles of the organisation, and points out the fallacies of the opponents of the League theory. Cobden Clubities, he says, like the original Cobdenties, or earlier advocates of real free trade, based their creed on the maxim, "Take care of the imports and the exports will take care of themselves." Originally, manufactures and products of industry were meant by "exports." In that sense Mr. Cobden declared that every pound's worth of corn imported would produce its corresponding export of a pound's worth of manufactures. But experience has falsified this prophecy; therefore, for lack of actual and present, or "visible" exports, a new term has recently been invented—"invisible exports." By this the present proceeds of capital saved from the earnings of bygone years—i.e., "dead men's profits or wages," are meant. It is admitted, in effect, that imports for present consumption are being paid for by these "dead men's earnings," now existing as foreign property in the hands of capitalists. Fair traders demand, however, as essential to the prosperity of all clases, that imports for present use shall be paid for by "live men's earnings." Live men consume, and need present employment to enable them to do so. This, under the double pressure of unfair competition at home, and of tariffs abroad, they do not now get in proportion to our national purchases.

According to the ridiculous Cobden Clubite theory, as Mr. Sampson L'oyd points out, the years 1876-82 were twice as prosperous as any of the preceding. Business men will of course form their remarks any of

According to the ridiculous Cobden Clubite theory, as Mr. Sampson Lloyd points out, the years 1876-82 were twice as prosperous as any of the preceding. Business men will, of course, form their own conclusions. Probably even those not engaged in trade or commerce are aware that these were years of the greatest depression in our national industries. Fairtraders then sum up this theory as to "excess imports" representing national profit, by proving that at the best they mean only profit for the wealthy, not engaged in home industry, but loss (and therefore rain) to the masses who live by daily labour or production. The argument that the world's indebtedness to England creates the "excess," resolves itself into this—that the many must suffer to benefit the few. Our labourers and producers are the many; but our dealers in foreign securities and investors in foreign labour are the few. Why, in order to enable the latter to foreign labour are the few. Why, in order to enable the latter to realise their income more easily, are the former to be handicapped and undersold even in their home markets? If this be right a paradox arises-"That the richer the few, who are investors in foreign dox arises—"That the richer the few, who are investors in foreign stocks, land, or factories, may be, the poorer our working classes must become if they remain at home." The cry for "State-aided emigration" eloquently illustrates the position. And the larger such "excess imports" and displacement of home products, without corresponding return markets for "labour," the better for some of the rich; but the worse in the long run for all the poor—no matter how cheen things may be

cheap things may be. But the real views of the National Fair Trade League can proba-But the real views of the National Fair Trade League can probably best be ascertained from the concluding portion of its Chairman's third letter, in which he explains that the argument of the Cobden Clubites is that our excess imports (25 per cent. of the whole or over 60 per cent. of our food) do not come in exchange for products of home industry, but are received as payment for our carrying earnings and profits on foreign investments. But, except in shipbuilding, our artisans and operatives are very slightly interested in shippowing, and scarcely at all as foreign investors. They cershipbuilding, our artisans and operatives are very slightly interested in shipowning, and scarcely at all as foreign investors. They certainly do not procure imported food without payment, and to pay they must work. To them the capitalist who imports food stands in the position of home producer, with this important exception—that whilst the latter, when prosperous, is invariably the best customer to the manufacturer in his own district, the former is mainly a customer to the foreigner from whom he obtains his supplies. What the labourer than needs is the largest return market he can find for his own labour, in exchange for what he buys—whether it be corn or meat, grown at home or imported.

As far as the working classes are concerned, it would, he remarks,

As far as the working classes are concerned, it would, he remarks, seem evident, then, that the best return market they could hope to find would be from the producers of home-grown food. If he who makes two blades of corn grow where only one grew before be a public benefactor, what is to be said of those whose policy has caused land to go out of tillage because of the relative disabilities which render its cultivation commercially unprofitable? But I am not now dealing especially with the home question—on which so much may be said. The need for external supplies of food exists, and must be faced. The working classes who consume must have present work to pay for what they buy, even though our richer classes may receive either the whole or a portion of our "excess imports" in payment of their earnings abroad, by which they wax more wealthy still. Let us examine then, as though we were private traders payment or their earnings acroad, by which they wax more weathy still. Let us examine, then, as though we were private traders taking stock of the several advantages offered us by our various correspondents, where our labour classes can most advantageously expend their wages. In his first letter he showed the progress of our whole world trading for the three septennial periods since 1862—the era of free imports. From figures given then he proved that in the last septennial period—one of great depression—excess investe wave doublet three of previous and room progressors periods. that in the last septennial period—one or great depression—excess imports were double those of previous and more prosperous periods. Let us see, now, he continues, whether our commerce with all parts of the world shows a similar result in this respect. Space forbids my here recapitulating the nature of our trade with each State or with each quarter of the glode, though I may refer, as stated in my last letter to the fact that the United States only buys from us 6s. 10d. in the pound for each 20s. worth of commodities we buy from her. But it is sufficient for my purpose to separate the trading with foreign States from that with our own Empire, and to find that

with foreign States from that with our own Empire, and to find that the figures come out thus:—

Foreign. Imperial. Excess. Kxchange.

Imports. Exports. Impts. Expts. Impts. Expts. Foreign. Imperial. 1862-62. 1269. 1115. 516. 372. 36. 21. 169. 41. 149. 54. 1869-75. 1894. 1515. 535. 454. 50. 12. 169. 34. 179. 04. 1876-82. 2108. 1343. 614. 515. ... 169. ... 19. ... 19. ... 19. ... 19. ... 19. ... 179. 94. 179. 94. 1898 with the strength of the string and millions unless otherwise expressed diately succeeding the dates show our commerce with foreign States only; the next two show our commerce with our own Empire; the column headed "Excess" represents the averages of excess imports in either case; and the columns "Exchange" show how much in the 14. the return custom for British labour in exchange for our purchases [has been. The responsibility for the figures rests untirely upon Mr. Sampson Lloyd.]:

Does not the whole course of trade show then, Mr. Sampson Lloyd.]:

link between the granite highlands of Cornwall and Devon and the submarine granitic area of the Channel.

The concluding business of the meeting was the election of the supplies from our possessions, we were to devote our food custom to

our own Empire, the prosperity of our industrial classes would be materially advanced. There is no working man, no business man, who, having money to lay out for his own requirements, would not rather spend his earnings with one who will employ him to the extent of 17s. 9d., instead of only 12s. 9d. for each sovereign he lays out. How much more steadily still, then, if he can get a return trade for the whole 20s., or more, as is the case when he deals with the home producer! But it is impossible to distinguish between corn and corn, or meat and meat, when once brought in the market. There is but one way of controlling the distribution of "custom," and that is by a system of taxation which shall place the foreigner who does not exchange products on equal terms at a disadvantage, and so either divert our custom elsewhere or force him to open his markets to our industries. Fair-Traders, like other people, hate all rates and taxes, and would gladly abolish or reduce them if Government could go on without. But they hold that, whatever burden may be absolutely necessary, it should not fall only on ourselves, but that all who benefit by our consuming power should at least be taxed allike with our own producers. If food, and of course the manufactures of our cities, are to be taxed when produced at home, they ought to be taxed when imported from abroad. It follows then that if our the our own producers. It look, and or course the manufactures of our cities, are to be taxed when produced at home, they ought to be taxed when imported from abroad. It follows then that if, on the other hand, they ought to be imported free, they ought to be grown and produced at home free of all rates and taxes. This being howand produced a flower lever in rates and taxes. This being how-ever impracticable, Fair-Traders claim that we should at least deal most favourably with those who deal most liberally with us.

THE AMERICAN TIN TRADE-STATISTICS OF TIN. Sept. 1, 1883.-Stock in all hands, New York, Boston, and Phil-

**	**	Australian, "	59	130	
93	**	L. & F., and refined	**	13	
**	**	Banca and Billiton	2.0	42 =	1,105
	Total				2,520
Consumpt	ion—During	September	*******	Tons	1,100
				**********	1,420
		and Malacca, July, Aug			
		r steamers		1,765	
ditto	ditto May,	June, July and Sept., p	er sail	250	
ditto	ditto from	m London stocks (estim	ated)	nil	
ditto	Australian	(estimated)		200	
ditto		d Banca (estimated) .		10=	2,225

there being no important fluctuations. In futures a moderate business was done at 20½ to 21 c. throughout the month. The London market on the whole showed more activity than ours, but operations there have been irregular and uncertain. The market opened at 93*l.*, touched as high as 96*l.*, but receded to 95*l.* 5s., at which it closed. In Holland the opening prices were 57 fl. for Banca, and 56 fl. for Billiton. Our last mail advices quote Banca 57½ fl., Billiton 56½ fl. The regular bi-monthly Banca sale went at 57½ fl., equal to 96*l.* 10s. in London. The European deliveries are reported as 1250 tons in London, and 750 tons in Holland. The new shipments are reported as 900 tons from Australia, and 1080 from the East Indies, 710 of the latter being to the United States. We believe that the shipments for October and November will be small to America from the East Indies, not only because shipments to all parts will be small, but because England will be in a position to pay higher prices in the East. Indications from London are that the future of the article will depend to a great extent upon operations in that market. Prominent operators there who have for some months manifested no special interest in the article, have recently been accumulating stocks to an extent which would indicate their intention to give pig-tin their special attention. Whether they will be as successful as they have been in past movements remains to be seen, but it must be admitted that their operations will be greatly aided by the natural strength of the position, especially in America.

The following facts in regard to British tin and tin-plates may be found interesting in connection with the general position of pictics.

New York, Oct. 1.

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al.

that their operations will be greatly aided by the natural strength of the position, especially in America.

The following facts in regard to British tin and tin-plates may be found interesting in connection with the general position of pig-tin. The exports of British tin for eight months ending Aug 31, were as per Board of Trade Returns:—1883, 3610 tons; 1882, 3537 tons; 1881, 3150 tons. The foregoing shows a steady increase of exports, and as the output of Cornish mines is known to be smaller each year and consumption greater, the amount of foreign tin being shipped from London and Holland to mix with the Cornish ores is continually on the increase.

Exports of tin-plates for eight months ending Aug. 31 as per Board of Trade Returns were:—1883, 181,454 tons; 1882, 181,856; 1881, 155,514. The shipments to the United States show a falling off, but stocks in America are known to be smaller than for many years. Importers, dealers, and consumers are buying from hand to mouth, consumption is enormous and beyond precedent, while assortments are much cut up, and it is extremely difficult at times to fill jobbing orders of the mest ordinary sizes. It is to be noticed, however, that although the United States have taken less, other countries have made this loss good. Our importers and dealers must soon be large and constant buyers, stocks being so light here and very moderate in Liverpool, and a sharp reaction must take place sooner or later, which means a heavy demand for pig-tin, and higher prices in both tin and tin-plates.

Below we give the stocks on spot and affort for Europe and America.

tin and tin-piates.

Below we give the stocks on spot and afloat for Europe and America.

For the European statistics we are indebted to Messrs. W. T. Sargant and Sons, London:—

1883. 1882. 1881.

Sont 30. Sart 30. Sar

Sept. 30. Sept. 30. Sept. 30.
Foreign tin in London and landing Tons 4,550 5,417 6,679
Straits affoat for London [including] 620 250 220
Straits afloat for London { including wire advices } 620 250 220 Australian ditto { wire advices } 1,620 1,200 1,680
Banca on warrants in Holland
Billiton in Holland 2,115 1,933 1,398
Billiton afloat for Holland 750 607 800
Other foreign in Holland
Stock in America and quantity affoat 3,645 3,015 3,455
Total
Trading Company's reserves of unsold Banca:
Stock in Holland 2.975 2.307 1.581
Floating for Holland
Price of Straits and Australian tin, New York 21c 254c 214c.
ditto ditto London£95 5 £107 £95 5
New York Oct 1 EDWARD B WHITE AVE CO

Novel Application of Electricity to Mining.—On Thursday a number of scientific gentlemen and others interested in mining assembled at McLaren's Iron Foundry, Rotherhithe, to inspect a new process for separating metals from their alloys by electrolysis. Amongst the company were Mr. A. Zeehandelaar, Commissioner for the Mining Territory of Utah, Montana, and Idaho, at the Amsterdam Exhibition; Mr. J. Shealock, electro-metallurgist; Mr. C. F. Jones, San Francisco; and Mr. Atkins, the inventor. An elaborate apparatus was fitted up, showing the whole process at work, the power being obtained from two gramme dynamos, assisted by accumulators. The alloy used was pieces of base bu'lion, composed of gold, silver, and copper, which were suspended in sulphuric acid diluted with water, contained in porous conductive vessels filled with a solution of sulphate of copper, in which are suspended plates of copper. The alloy and the porous conductive vessels are connected by means of copper rods with the positive pole of the dynamo-machine, and the plates of copper are in like manner NOVEL APPLICATION OF ELECTRICITY TO MINING .- On Thursday

EDWARD P. WHITE AND Co.

connected with the negative pole of the same machine. The current of electricity being made to pass through the alloy enters the acid solution, which is thereby decomposed. The oxygen being liberated from the water combines with the silver and copper, producing oxides of those metals, which are soluble in the sulphuric acid, and the gold being unaffected falls to the bottom of the vessels, from which it is removed, washed, melted, and run into bars. The electric current passes from the alloy through the solution and the walls of the porous conductive vessels to the plates of copper, at whose surfaces the hydrogen of the water combines with the oxygen of sulphate of copper, thereby freeing the copper is then removed from the outer-containing vessels, washed, and run into ingots in the usual manner. Fresh sulphate of copper and solution is supplied to the outer containing vessels, washed, and run into ingots in the usual manner. Fresh solution flows into the porous conductive vessels. The solution in the porous conductive vessels, when saturated with the sulphates of silver and copper, is withdrawn and run into a tank containing sheets of copper, which having a greater affinity than the silver for the sulphuric acid, the silver is thrown down in the metallic state, and the solution becomes one of sulphate of copper containing state, and the solution becomes one of sulphate of copper contains. silver for the sulphuric acid, the silver is thrown down in the metallic state, and the solution becomes one of sulphate of copper only. The pure silver in a finely divided state is then removed from the tank, washed, dried, melted, and run into ingots, and the solution of sulphate of copper is removed to the store tank, from which it is allowed to flow into outer-containing vessels as required. It will thus be seen that the sulphuric acid in solution is used over and over again, and the metals separated from their alloy in a perfectly pure state. The advantages of this process over the systems now in use for refining are claimed by the inventor to be very great, it being almost automatic in its actions, free from acid be very great, it being almost automatic in its actions, free from acid vapours in the atmosphere of the works, and economic in the use of acids. Further, the inventor claims for his invention that instead of having to deal with the bye product, sulphate of copper, nothing but metallic copper is produced.

SCOTCH PIG-IRON WARRANT MARKET.

Mr. W. Wilson (Glasgow, Oct. 24) writes:—The warrant market is depressed, and the price down 1s. per ton in the week. There has been considerable selling out on the part of holders. At the moment the outlook is by no means assuring. Reports from the iron districts have even a more depressed tone of late. It is remarkable that a year like the present, which, as regards the Scotch iron trade, has been one of more than average activity, and which will probably show a further reduction of stocks, should have been marked throughout by depression and disappointment. Shipments for the week are out by depression and disappointment. Shipments for the week are particularly good. The number of furnaces blowing is now 104, six having been relighted at Gartsherrie, and four at Lugar Works. 221 tons were put into store here last week, while 535 tons were taken out at Middlesborough. Business was done during the past week at

out at Middlesborough. Business was accused the following prompt cash prices:—
Thursday, Oct. 18. Friday, Oct. 19.
45/10½, 45/3, 45/11, 45/7½ ... 45/8, 45/6, 45/7, 45/5½ ...
Tuesday, Oct. 23. Wednesday, Oct. 24.
45/1½, 45/4½, 45/3½, 45/5 ... 45/5, 45/3½, 45/4½, 45/2 ...
45/1½, 45/4½, 45/3½, 45/5 ... 45/5, 45/3½, 45/5 ... 45/5 Monday, Oct. 22. 45/5, 45/11/2 Thursday, Oct. 25. 2 ... 1882. 1881. 49/8 Price of Scotch Warrants, Oct. 22
Furnaces in blast in Scotland do.
Iron in store at this date
Shipments of Scotch pig-iron for week ending Oct. 20
So. since beginning of year
Price of Middlesbro', No. 3, Oct. 22
Furnaces in blast Middlesbro' dist.
Middlesbro' iron Imported at
Grangemouth, week ending
Oct. 20
Oct. 20
Oct. 20
Oct. 20
Oct. 30
Oct. 30 45/3 ... 50/5 104 ... 114 589,325 ... 621,495 ... 604,083 ... 474,861 16,440 ... 13,058 ... 12,451 ... 9,905 533,864 ... 524,901 ... 474,112 ... 571,622 38/9 ... 44/6 ... 41/3 ... 39/5 118 ... 120 ... 113 ... 119 8,780 ... 3,485 ... 3,930 ... 10,248 Do. do. since beginning of year 213,160 ... 191,592 ... 245,439 ... 209,228

REPORT FROM CORNWALL.

Oct. 25.—Though unable to point directly to any very strong grounds taken individually, from the belief that some improvement in mining affairs is tolerably close at hand, there does seem certain indications of a minor character which, taken together, appear to lead in that direction. Consequently, there would appear just now to be an excellent opportunity for investment. In the just now to be an excellent opportunity for investment. In the nature of things shares are quite as low as they can be expected to go, and we regard the improvements recently noted in various mines as but the precursors of others that will not long be delayed.

Recent mine meetings are once more emphasising the want of wisdom which has characterised the treatment of the dues question of late. Adventurers are going, cap in hand, to lords to ask them to remit or reduce dues which everyone who thinks at all must know are

remit or reduce dues which everyone who thinks at all must know are remit or reduce dues which everyone who thinks at all must know are excessive; and yet, when the opportunity was offered the other day of introducing a self-regulating sliding-scale of dues depending upon the price of produce—the next best thing to the only really equitable system of dues on profits—it was rejected. Some of the disabilities under which we labour are unavoidable; but really a very large proportion might be removed by the exercise of a little pluck and foresight. Yet to-change the old ways for new is the last thing to be thought of aparently.

and toresignt, Yet to-change the old ways for new is the last thing to be thought of apparently.

The disputes concerning the competitions of pulverisers are becoming more 'mixed,' we might almost say more amusing, than ever. Two competitors, at least, claim that their machines have been shown to be the best in the field by the awards made, and others aver that their apparatus would have occupied that position if it had had a fair competitive chance. Disinterested persons can see very little to complain of; but in face of the fact that every see very little to complain or; but in face of the fact that every fresh trial that takes place in regard to mining machinery involves a larger proportion of grumbling than its predecessors, would it not be more wise, as it certainly would be more comfortable, for the different societies to have no more competitions, but content themselves with affording facilities to exhibitors to work their machines, and make their awards from any contests at all. Nobody can be satisfied with things as they are, least of all gentlemen who have done their best to severe equipable competitions, and who find when satisfied with things as they are, least of all gentiemen who have done their best to secure equitable competitions, and who find when all is over their judgment and capacity denied, and their fairness questioned—at least, by implication, if not in so many words. We do not mean to say that the grumbling spirit which has been so liberally illustrated of late is peculiar to Cornwall, or that difficulties do not arise in other trials elsewhere; but there certainly has been more jealousy shown of late than we have been accustomed to see in the West, and if it is to be regarded as inseparable from all efforts made to supply mining men with reliable data concerning the value of machines and processes, why these efforts had better be

the value of machines and processes, why these efforts had better be given up.

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2.017 ... 2,31 him to register shares in the names of as many dummies as he pleased, and that, in short, never checked or controlled him in any way. Considering everything, therefore, the adventurers in Wheal Jane have really cause to be grateful to Mr. Granville Sharp for his moderation. So far as committee or audit are concerned, from what was stated at the meeting, he might have helped to two or three times the amount that is now missing, and no question would have been asked until the moment of inevitable exposure. Of course we cannot altogether acquit the adventurers of blame. They ought to have seen that their affairs were properly looked after; but do not let the bulk of the discredit this time be laid to Cornish

mining simply because the property manipulated is in the county.

As to Mr. Sharp's other connections and engagements, what is

audit" and the like, for checks seem to have troubled him to the least possible extent, but that if any good result is to be got out of his doings at all, it can only be by thorough investigation. Let the adventurers and the mining world know exactly where the fault has been, and what negligence has been contributory to this sorry termination of what seemed a flourishing career.

REPORT FROM NORTH AND SOUTH STAFFORDSHIRE.

REPORT FROM NORTH AND SOUTH STAFFORDSHIRE.

Oct. 25.—Beyond the new phase of the coal trade, as developed in
the meeting of the Conciliation Board, referred to further on, there
is no new feature of importance this week in that branch of trade.
In the pig-iron branch vendors of foreign sorts are not pressing their
products on the market, being content to await the gradual improvement in demand which they think the present activity in finished
iron warrants them in believing to be not far distant. Thorncliffe
pigs are 57s. 6d., and Lincolnshires 50s. Native all-mines are 62s. 6d.,
and cinder pigs 40s. to 37s. 6d. Hematites are 60s. per ton. The
finished ironmakers are nearly all busy, and some hoop, and strip,
and common bar makers are getting a rise of 5s. on a couple of
months ago.

and common bar makers are getting a rise of 5s. on a couple of months ago.

The gathering together of the Coal Trade Wages Board, before Mr. Haden-Corser, barrister, the umpire, which has been eagerly awaited by the coal trade, came off in Wolverhampton on Monday. The men asked the umpire to decree an advance of 1s, per ton in the price of coal, and to advance wages by 4d. per day or stint in the Thick coal seams, and 2d. per day in the Thin seams, thus bringing Thick coal miners' wages to 4s. per day, or "stint." The only argument that they could adduce in favour of the claim was an alleged improvement in trade. To this the masters replied that not only was the allegation illusory, but that their chief support—the iron trade—could not bear the imposition of an advance in coal. Indeed, they contended that they were entitled to a reduction at once of 10 per cent., seeing that the condition of trade during the four months which had passed since the men's wages were increased to 3s. 8d. per stint had not that the condition of trade during the four months which had passed since the men's wages were increased to 3s, 8d, per stint had not justified the advance. An attempt was made at the meeting to lay the basis of a new sliding-scale, but the two proposals which emanated from the employers had to be abandoned, so great was the dissatisfaction. The umpire remarked that he did not believe he had the power to advance the price of coal, and ultimately the questions of advance and sliding-scale basis were left in his hands. He has promised to issue his award as early as possible.

On Sunday evening an explosion occurred in the Fair Lady Colliery, Lycett, North Staffordshire, the property of the Madeley Coal and Iron Company. Six men were killed, and several others injured. A fire had existed in the mine for some time, and some 14 men descended the shaft on Sunday for the purpose of "building off "the Bullhurst seam, in which the fire raged. Aboat half-past eight a slight explosion occurred, but the workers continued their operations. In a few minutes afterwards a second explosion occurred, with the

In a few minutes afterwards a second explosion occurred, with the result stated. Mr. James Kirkwood, mining engineer, is among the killed. On Monday it was decided to fill up the upcast shaft, and this work was continued all day on Tuesday. The men, under the superintendence of Messrs. Wynne and Sawyer, Government Inspectors, began to fill up the downcast shaft as far as the first cut. It is now certain that some months must clause before the mine can again now certain that some months must elapse before the mine can again be opened and the bodies recovered. It has been ascertained that the deceased leave 24 children, in addition to six widows.

REPORT FROM DERBYSHIRE AND YORKSHIRE.

Oct. 25.—The last week has been a more than usually eventful one in the Midland field. Meetings of colliery owners, as well as of miners, have been held, whilst there has occurred in a district that has been remarkably free from fires an explosion involving a loss of 20 lives, and the flooding of a considerable portion of the mine owing to the standing fire. The wages question has formed the principal topic of conversation in mining circles, and the decisive stand made by the colliery owners is considered an extinguisher on the unwarranted demands made on behalf of the men. There was a meeting in the first instance at Derby of the owners resident the unwarranted demands made on behalf of the men. There was a meeting in the first instance at Derby of the owners resident in that county and the adjoining counties of Leicester and Nottingham, when it was decided that there was no ground whatever for the men asking for any advance, and that it should be peremptorily refused. This decision was fully endorsed at the still more important meeting held at Sheffield on Tuesday; so that the men are now left to pursue whatever course they think best; but few believe that with nearly full work all round the result will be a strike, and such a daring proposal is not likely to be made. Trade in Derbyshire is what may be considered fairly good so far as coal mining is concerned.

what may be considered fairly good so far as coal mining is concerned.

A large tonnage of house coal continues to be sent to the Metropolis, where merchants hold large stocks and still supply their customers by ordering, so as to meet the requirements of the latter. This is in consequence of the position taken by the miners, who were they to strike, would find the London merchants prepared for two or three weeks to come. Prices have continued firm, but it is not likely that any advance will be made, just at present at least. Steam coal has gone off tolerably well; but were it not for the large quantity that is taken for the blast-furnaces, there would be great difficulty indeed in disposing of anything like the quantity that is now raised. Of late rather more has gone to London for contracts for various works, but it cannot be put on to vessels in the Thames owing to the cost of lighterage, whilst the prices at which it has to be supplied leaves a very small margin of profit indeed. Gas coal continues to go off rather freely, as required by the contracts which are entered into in the summer. In small coal there is rather more difficulty in disposing of it, even at a price which leaves no profit whatever. Were coke to be made to the extent of supplying the ironworks, this would absorb a large quantity of the small coal; but whatever. Were coke to be made to the extent or supplying the ironworks, this would absorb a large quantity of the small coal; but the Derbyshire colliery owners have shown no disposition to enter into the coke trade, although it is considered considerably more promited that the considerably more promited that the considerably more promited by into the coke trade, although it is considered considerably more profitable than the raising of coal. Considering the depression which appears to prevail in our leading iron-making districts, and the low price which pig realises, Derbyshire makers may be considered tolerably well off. One advantage they have is that a good deal of what they make they are able to use upon the ground, for such foundries at Staveley and Stanton absorb a very large quantity of raw iron. The system of making iron and steel direct by what is known as Bull'sl process will be in poperation before long in Derbyshire, at no great distance from Sheffield, where there should be a market for all that is made if it comes up to anything like what is said of it.

In Sheffield business has become more active, and is not confined

all that is made if it comes up to anything like what is said of it.

In Sheffield business has become more active, and is not confined to one branch, but may be said to go all round, affecting both the heavy and light departments of both the iron and steel trades. Of late the demands upon makers of both Bessemer and crucible steel late the demands upon makers of both Bessemer and crucible steel have increased, although, as regards the former, there is still but little doing in rails, owing to the very low price at which they are being turned out by the makers having works close to shipping ports. Contracts have been taken as low as 4l. 15s. per ton, and this price would not suit the Sheffield makers. Still, Bessemer billets have gone off rather freely for some descriptions of cutlery and tools. Crucible castings, both heavy and light, are also in fair request, more especially for corf and other wheels, hammers, picks, and mining tools of all kinds. In the production of cutlery an improvement has also to be noted as regards both table and ordinary pocket knives, the home markets showing to greater advantage. The rolling-mills have continued to ran well, armour-plates, of course, being in the greatest request, for the orders for them are heavy. In other kinds of plates, as well as sheets, a steady business is still the rule at the various works. Railway material, exclusive of rails, is in good request, more especially in the shape of tyres, carriage-wheels, springs, and wagons. At several of the foundries in the town and district there is more activity than for some time past, fair orders being in hand for gas and water pipes, tanks, and machine castings.

In the South Yorkshire district the coal trade continues healthy, many of the collieries working full time and the others five days, which it is reached.

many of the collieries working full time and the others five days, which is as much as most of the men care to work. House coal goes needed now is no attempt to slur matters over; but a full and fair overhaul of every business with which he has been concerned. Not that there is much to learn with regard to "improved systems of Grimsby for shipment, a large tonnage being for the North of Europe. The course that is likely to be pursued by the miners in the neighbourhood of Barnsley, where the movement for an alvance of wages first started, is receiving some notice; but the prevailing opinion is that there will be no strike, the men, in fact, being too well off and in receipt of very fair wages, which they will not risk for the chances that might turn up from a strike.

TRADE IN SOUTH WALES.

Oct. 25.—Shippers at all the South Wales ports were hampered last week by the weather, the strong south-west gales driving vessels up the Channel, but prevented many from leaving, or, if they did leave, were driven back by stress of weather. The amount sent away from Cardiff was 109,941 tons foreign, and 15,122 coastwise. Newport, 33,029 tons foreign and 15,000 coastwise; Swansea, 17,235 tons foreign and 10,015 coastwise. Prices are firm at Cardiff, at from 10s. 6d. to 11s. 6d. for colliery-screened; double-screened, 9d. more. Small coal in better request, at from 4s. 6d. to 4s. 9d Two powerful steam hoppers have arrived at Cardiff in order to widen the Gutway. If the dangerous shoal called Cefn-y-wrach were blown away with steam hoppers have arrived at Cardiff in order to widen the Gutway. If the dangerous shoal called Cefn-y-wrach were blown away with dynamite the port of Cardiff would be among the best in the world. The reports from all the valleys are encouraging. The following is from the Rhondda Valley:—"The briskness at all the collieries is being actively maintained, and it is not probable that an alteration can soon be expected. The investigation of the accounts of the Ocean Collieries, having resulted in leaving the rates of wages remaining in statu quo for the next quarter, took the mining circle here by surprise, as the result was taken as a criterion for the coming audits of the Ferndale and Association scales. But, fortucoming audits of the Ferndale and Association scales. But, fortunately for both owners and workmen, the Ferndale audit shot the mark, and an advance of 2½ per cent. was awarded. The best opinion mark, and an advance of 2g per cent was awarded. The dest opinion seems to be, that the same result may be expected by those who are working under the Association scale from the audit that is now taking place of the owners' books." While such is the condition of the coal California of South Wales, collieries in the Forest of Dean are not much sought after, the coal being of an inferior quality.

The New Fancy Collieries, with the Parkend pits, as well as the adjacent level and gales in the Forest, were on Saturday last sold by public auction, at Gloucester, Mr. Bythway, of Pontypool, being the purchaser, at 6500L, on behalf of Mr. R. Toomer, of Reading. The work will, it is believed, be forthwith restored, under the manage

work will, it is believed, be forthwith restored, under the management, as before, of Mr. Deakin.

The iron and steel works are again in full swing, the men having accepted the reduction. One parcel of iron was sent away from Cardiff last week of 626 tons. Newport exported several parcels as follow:—Algoa Bay, 1728 tons; Helsingborg, 1000; Oporto, 170. The Iron Ore Trade remains depressed, but the arrivals are still very large. At Cardiff last week 13,684 tons were received from Bilbao, and 808 tons from other places; Newport, 12,706 tons from Bilbao, and 808 tons from other places. The price may be quoted at about 13s. per ton. It is feared that the College Ironworks, Llandaff, one of the oldest in the district, have again been definitely closed. It seems that the men cannot agree as to price. For the first month after the works started the men were paid 9s. per ton for finished bar, whereas in other works the puddlers were paid at the rate of 7s. 9d. for bloom and 9s. 9d. for finished bar. At the end of the first month the men gave notice that they would not work unless the rate was increased. The proprietor then agreed to give them 9s. 3d. The men were not satisfied with the increase, and decided to give notice. The notice expired on Wednesday week, and the works have since here eleged. Although the suddless at the different inverses have since

men were not satisfied with the increase, and decided to give notice. The notice expired on Wednesday week, and the works have since been closed. Although the puddlers at the different ironworks are paid 7s. 9d. for bloom, it is said that the men are quite agreeable to restart if they are paid 7s. for bloom.

The Tin-plate Trade is in a much healthier condition, good I.C. cokes being quoted at from 16s. 3d. to 17s., and even more, while charcoals are from 18s. to 22s. per box. Foxhole, Morriston, has been purchased by a Llanelly Company, and will be started at once, men having been already engaged to work there. The returns show an increase in exports of 5410 tons, as compared with September, 1882, and an increase in value. The increase in demand is great for the United States, France showing a great decrease, and other countries a slight decrease. The Llangennech Works will shortly be put up for sale, and, it is rumoured, will be sold to a gentleman who knows the trade well. The demand for plates is so great that capitalists feel compelled to meet the demand; but there is a danger of again exceeding it.

TRADE OF THE TYNE AND WEAR

Oct. 24.—There is little change to note in the state of the Coal, Iron, and other Trades here; on the whole there is certainly a large business doing in all branches of trade, but few, indeed, will acknowledge that much profit results—the days of large profits appear to have passed. On the whole, the general coal trade of the district appears to be favourable, although the Baltic season is entirely closed. The steam coal works continue to be well employed, and this is certainly a favourable symptom, as it [proves conclusively that the demand from other markets has improved. The miners' wages in Northumberland have also been raised 2½ per cent, since the last quarterly account was taken of the average selling price of this coal under the sliding-scale, and this has given much satisfaction. The demand for gas and other coal in Duham continues very strong, and outside of contracts prices are very firm, with a little improvement. The enquiry for house coal continues -There is little change to note in the state of the Coal, with a little improvement. The enquiry for house coal continues good, and should a severe winter occur there is little doubt that there would be a considerable rise in the value of this kind. The exports of second-class steam coals and nuts to the Continent conexports or second-class steam coals and nuts to the Continent continue on a large scale, and there is a fair sale also for steam small coal. The shipment of, coke to Spain and other foreign ports continue on a good scale. There is also a good local demand for coke of medium quality at rather higher rates. On the whole, there is a good prospect for the winter for the mineral trades in Durham. We have before pointed out that the rates for the carriage of coke from the Durham district to the iron-making district on the West. We have before pointed out that the rares for the carriage of coke from the Durham district to the iron-making district on the West Coast have been the subject of complaint, and these rates operate against the cokemakers here, and against the ironmakers in Cumberland. There is now ground for belief that amongst the railway projects to be brought forward in the next session of Parliament will be one for increasing the facilities for the dispatch of coke from this district to the north-western iron-making district. It is reported also that one of the chief railway companies will aim at acquiring also that one of the chief railway companies will aim at acquiring one of the smaller railways that communicates with the iron-making district on the north-west. Considerable interest will be felt in these proposals, for it has long been felt that there ought to be greater facilities for the large trade in coke between the east and west coasts. The coal and coke trades in Cumberland also appear to be At the Durham Colliery, near Maryport, a new winning has been made into a considerable tract of coal, where the seam has been found 5 ft. in thickness, and the quality of this Thick coal is well spoken of. The output of coal has only been small at these works for a considerable period, but it is now being rapidly increased, and it is expected that it will reach 600 tons per day shortly. About a month ago it was found that the coal near the furnace at About a month ago it was found that the coal near the furnace at the "Wardley Colliery, Gateshead, had become much heated, and the men naturally were a little alarmed. Part of the coal was cut out, and thick lining out in, and it was fully expected that the defect had been remedied, and all danger averted. It was found, however, on Sunday that the coal had become much heated at another point, and the working of the colliery will, consequently, be stopped for a few days until the heated coal and shale is cut out, and additional bright lings inserted. ick lining inserted. The Pig-Iron Trade has, on the whole, been quiet this week.

The Pig-Iron Trade has, on the whole, been quiet this week. The shipments have been large, but current demand has been restricted while the lower rates of Scotch iron have acted prejudicially. It is expected that stocks will be still further reduced this month. The manufactured iron trade has been quiet with a weaker tendency. With pig-iron at a low price and reduced wages the manufacturers can afford to accept lower rates. The prospects of the iron shipbuilding trade continue good; a very large number of fine vessels have been launched on these rivers of late, and there are still a large number on the stocks in various stages. Ship-plates are about 64.

Makers still ask 39s. for No. 3 pig-iron. Boiler-plates are 7l, to 7l, 5s. Shipments for the week were 26,168 tons pig-iron and 11,700 tons of manufactured from and steel. Connal's stock of warrants is now 67,437 tons, a reduction of 535 tons. The coal trade in South Durham is firm. The shipments of pig-iron so far compare very favourably with last month. The steel trade dull, and the price of rails, &c., far from satisfactory. The make of steel at the great works of Bolckow and Vaughan, at Eston, is being reduced in consequence, and one of the mills has been stopped, and a considerable number of hands discharged. The strike of engineers at Sunderland continues to paralyse to a considerable extent the iron and other trades on the Wear. The strike has now entered upon a critical phase, and the masters are determined not to concede to the demands of the men appear now to realise the fact, and seem anxious for a speedy settlement of the matters in dispute. The struggle is a severe one, and the masters are determined not to concede to the demands of the men as to the regulation of the number of apprentices, and

the men appear now to realise the fact, and seem anxious for a speedy settlement of the matters in dispute. The struggle is a severe one, and the masters are determined not to concede to the demands of the men as to the regulation of the number of apprentices, and they are supported as far as possible by the engineers on the Tyne and other parts of the districts. A considerable number of men have been got from other districts, and the strikers are now making strenuous efforts to intimidate those men and drive them away, but with only limited success. It is true that a considerable number of the apprentices have also come out; but this will only prove a temporary inconvenience, as the majority of these hands are bound for a term of years, and they will be compelled to return to work. Arrangements are in progress for a conference between the parties, which is expected to take place in a few days, and it is hoped that by this means this disastrous strike will be brought to a close.

On Monday the great steelworks of the Cammell Company were started at Workington. Only a few years ago this place was only a little scaport; but now there is a large population dependent upon the West Cumberland, the Moss Bay, and other steel and ironworks. Rather more than a year ago the first sod of the new works was cut. Six months ago the last rail was rolled at Dronfield, near Sheffield; but the machinery has now been transferred to Workington. Last week the first "blow" took place of the Bessemer convertor. The new works commence under the most hopeful auspices. To the machinery there are added other inventions than those Mr. Bessemer brought out over 20 years ago. The "direct process" is in use here. The Gjers' soaking-pits retain the initial heat of the ingots, and Workington boasts that it has now what is considered the "finest roll train in England." No doubt all the latest improvements have been introduced; but after seeing the magnificent steelworks of Bolckow and Vaughan, at Eston, it is difficult to believe that any works Spanish and other foreign ores can also be imported, and there will, no doubt, be a keen competition between the producers of steel manufactures in the different districts. It is said that the first rails rolled at the Workington Mills is an order from the North-Eastern Railway Company, and this company is generally anxious to build up trade

Company, and this company is generally additions to built up trade in other parts

The question has often been asked as to the tonnage of the three chief ports of the kingdom. One of the shipping journals gives the following figures in reply to the query:—Liverpool, 4602 vessels and 4,726,161 tons; Tyne ports, 8643 vessels and 3,879,266 tons; and London, 6357 vessels and 3,702,898 tons. A comparison of the coasting trade, so far as it can be drawn, shows similar results. It is matter for surprise that the Tyne Commissioners do not state frequently what is the extent of the trade of the river, as most other river authorities do periodically.

REPORT FROM NORTH WALES, SALOP, AND CARDIGAN.

Oct. 25.—The extremely low price of lead might be turned to good account if it led to a consideration whether groups of mines in a district might not be worked more economically under one management than under several, each little mine doing no more business than a ittle grocer's shop, having its Chairman, secretary, and board of directors. Some such scheme has been adopted at the Tankerville, Bog, and Pennerley Mines, although to make such a combination complete, perhaps the Roman Gravels should have been included also. Take, now, the copper mines on both sides of Enowdon, near Beddgelert on one side, and Gorphwysfa and Llanberis on the other, the sulphur and couper density of Drawyscood and Meel Hebog, and siniler and copper deposits of Drws-y-coed and Moel Hebog, and similar deposits near Harlech. Why could they not be worked economically under one management? Then there is the group of mines near Pwilheli, and a similar group near Lianrwst, both in Carnarvonshire, Pwllheli, and a similar group near Lianrwst, both in Carnarvonshire, the mines stretching from Talybont to Bow-street on one side, and to near Glendovey on the other side, and other groups will occur to many of my readers. We may be quite sure that in Hugh Myddelton and Mrs. Buschel's time this plan largely prevailed, the miners bringing their hand-dressed ore from many surrounding mines to one centre for smelting or shipment. That such was the case I am assured by no less an authority than that of Mrs. Buschel's ghost herself, and such is the tradition which has come down from old times. The slate shipping trade of Portmadoc is not good. You may often see the quays without a single ship loading. This is partly due to a considerable falling off in the trade to the Baltic ports, and partly to the increased railway accommodation northwards and eastwards. The London and North-Western Railway Company are constructing docks on the River Conway below the bridges with the view of forming a slate port.

ing a slate port.

The tidal waves along the Welsh Coast have been extremely high of late, flooding the vicinity of the collieries and other works bet Flint and Holywell.

It is said that the group of slate quarries in the Cleddau Valley and on the Whitland and Cardigan Railway of South Wales are to be restarted and worked with vigour.

BRATSBEEG COPPER-THE No. I. ADIT.

BRATSBEEG COPPER—THE No. I. ADIT.

The Bratsberg property has just been inspected by Captain Rutter, of Camborne, and with reference to his visit he writes:—In all the reports which are issued of this mine, which has become prominent as one of the copper-producing mines of the world, it must appear a little singular to many that, although detailed references are always made respecting the workings at the Nos. 2 and 3 adits, nothing whatever is said concerning the adit No. 1. The reason of this is that the ore was long ago worked out, and the adit is not now in use. This No. 1 adit of the Bratsberg Mine is quite historical, inasmuch as it was excavated by Christian, King of Denmark, with miners from Germany, in 1640, when Norway formed a part of his dominions. The adit is on the same lode as the other two adits, where at present the greater part of the copper ore is worked, only it is considerably

the greater part of the copper ore is worked, only it is considerably higher up, being, probably, 100 fathoms below the top of the mountain Although this day level was driven in the hardest kind of gneiss rock, and the back stoped out, there is not a single mark of the miners' borer to be seen in all the workings, and the modern the miners' borer to be seen in all the workings, and the modern miner is led to wonder how it was they managed to drive levels and stope ground in those ancient times. The narrative expressed to me by the manager is, that they built fires of wood against the lode, and when it was made very hot they then threw water over it, after which it blistered off in pieces. By this primitive method the adit was driven a long distance and the lode stoped out. The miners' sense of security was so keen also that in stoping the back they buint the lode here and there only, so as to form a great number of small pillars, about 3 and 4ft. diameter, to support the side. In about 20 fms. from the mouth of the adit the lode is stoped through to the surface, and the numerous streaks of daylight shining down between the pillars, at all the angles from 75° to 25°, impart to the

old place a most interesting and poetical appearance.

It appears also that the ore was smelted into cakes on the spot, showing clearly that it was a mine and smelting works all in one; and no doubt the business was one of the sources of revenue to the exchequer of Denmark. At the adit's mouth is a waste heap, which

the wood for the fire to burn out the heart of the old mountain in order to obtain cakes of copper for the king. To many persons the method of mining herein mentioned will appear very slow and stupid, but it would be remembered that the wants of the people of that time were few and simple. It was an age in which human happiness formed the chief study of their quiet lives.

NOUVEAU MONDE MINING COMPANY.

The official version of the proceedings at the meeting in Paris on Sept. 28 has just been issued in feuilleton form, and in language no doubt intended for English. The pamphlet contains absolutely no report (in the English sense of the term) of the meeting, but a series of reports and statements which it may be hoped will attract sufficient capital, if it have not been already subscribed, to ensure the thorough testing of the properties to which the executive are now turning their attention. The managing director departs from the unusual Europe of commencing a particular with a process. unsual French custom of commencing a narrative with an account of the Creation of the world, and only goes back to 1850, when, there being no Limited Liability System recognised in connection there being no Limited Liability System recognised in connection with public companies law in England, the Nouveau Monde Company was formed under the French law as a société en commandite, which it may be explained places despotic control of everything relating to the concern in the hands of the gerant, or manager, the commanditaires merely supplying the capital, and taking the profits, if any, but being prohibited on pain of losing the benefit of Limited Liability from taking any active part in the business. As Messrs, John Taylor and Sons were then in the zenith of their popularity the capital asked for was readily obtained, and for a time there was considerable speculation in the shares of the Nouveau Monde, as well as in the various other sociétés anonymes and en commandite, which as in the various other societés anonymes and on commandite, which were brought to the notice of British capitalists. The Adelaide Land and Gold Company, and a few others, went honourably into liquidation, and the assets were realised so carefully that the shareholders received back the amount of their original subscriptions, but the majority of the Anglo-French concerns of the time were merely suffered to fall into absynce little or nothing heigh beard of the fered to fall into absyance, little or nothing being heard of the respective gérants, who being practically irremovable by the commanditaires had merely to keep out of the way or keep silent in order concerns were defunct. The resurrection of the Nouveau Monde may raise the question whether some other of the lost tribes of 1850-companies are not still on their journey through purgatory with their gérants in search of fresh mines or properties to bring to the notice of the patient shareholders at their days of resurrection.

the notice of the patient shareholders at their days of resurrection. For many years public meetings of the Nouveau Monde Company were unheard of, and the gérant appears to have maintained the most profound silence until there appeared to be the probability that more capital would be required; and it was then found that some had a-tually destroyed their share certificates (which, being to bearer, were the only evidence of proprietorship), and thus had the double annoyance of being kept in ignorance for years and then ignored altogether, or placed in the position of supplicants for restitution of rights. This indeed forms some excuse for recounting the history of the scheme from its commencement, but does not justify the course of procedure which rendered that historical parative precedcourse of procedure which rendered that historical narrative necessary. In his present report the *gérant*, for it may be presumed that that is the officer designated managing director in the translation, that is the officer designated managing director in the translation, mentions nothing of any business importance until he comes to the year 1877, when he acquired on behalf of the company the Nacupai Mine, which by that time appears to have ceased to be productive, although it is true that it had produced some 400,000l. worth of mineral before the Nouveau Monde Company acquired it for the handsome sum of 60,000l., of which 20,000l., the first instalment, was paid, but the balance of 40,000l. could not be obtained from the shareholders or accitalists of either London or Paris their confidence. shareholders or capitalists of either London or Paris, their confidence in the present value of the Nacupai property evidently not being so great as that of the gérant. But the first instalment of 20,000%. great as that of the gérant. But the first instalment of 20,000. being subject to forfeiture on non-completion of purchase a financing operation became necessary which in the result has so loaded the capital that profit can scarcely be hoped for. It appears that a syndicate was formed to provide 60,000. to pay the 40,000. balance of purchase money and supply 20,000. working capital. It is not obvious from the gérant's report what the aggregate return in money or shares to the syndicate for their 60,000. will be; but it appears that in round numbers a real capital of rather more than 150,000. has to earn profits to pay dividends upon a normal capital exceeding 600,000. and then surprise is expressed by promoters that no response can be obtained from the public to applications for capital; yet 150,000 of these Nacupaï shares form the chief a-set of the Nouveau Monde Company, which, moreover, has liabilities in the shape of bills payable and sundry creditors, amounting to 590,5074 frs., or about 26,000., with only about 272,642 frs., or 11,000., to meet it; the assets consisting of some 200,000 frs. worth of shares deposited against loans; 15,000 frs. sundry debtors; 35,462 frs. due from the against loans; 15,000 frs. sundry debtors; 35,462 frs. due from the Journal des Mines, or French Mining Journal, with which the gérant was connected, and 22,000 frs. cash in hand. It seems that rather more than three-fifths of the original capital has been lost, and the company's only hopes are in the Nacupai Mines, in Venezuela, and the Berkshire, in Dakota, United States.

FOREIGN MINING AND METALLURGY.

There has been no change of importance in the Belgian Coal Trade. No news may be regarded as good news, and if coke advanced a little Belgian coalowners would have scarcely anything to complain of. The demand for industrial coal might, however, be more marked, and in this respect the coal trade is threatened with some feebleness if on the return of the fine season no change occurs in the general aspect of the iron trade. For the present, however, as the winter is close at hand, no great attention is paid to the scarcity of orders in the ironworks, and quotations are generally firmly maintained. Coke has continued feeble at 12s, per ton; stocks are beginning to assume rather alarming proportions in some districts paid. ning to assume rather alarming proportions in some districts, not-withstanding a great reduction in the production. In the week ending Oct. 14 the number of trucks laden with coal and coke which over the Belgian State Railways. with 19,463 in the corresponding period of 1882, showing an increase of 603 this year. The situation continues favourable in the German coal trade, especially in household coal. The duliness in the iron trade has affected the sale of industrial coal, but the ness in the iron trade has affected the sale of industrial coal, out the collieries of Westphalia have found no difficulty in disposing of their entire extraction. In the Sarrebruck district the demand has also continued good. The extraction of this latter district in September amounted to 490,703 tons, showing an increase of 413 tons per working amounted to 490,703 tons, showing an increase of 413 tons per working day as compared with August. The deliveries in the Sarrebruck district have continued active, and amounted in September to 519,416 tons, so that stocks were reduced last month to the extent of 28,623 tons. Quotations have not changed in the Westphalian coai trade, and coke has experienced no further fall. The production of this latter

coke has experienced no further fall. The production of this latter article has become very considerable, and an improvement in prices can, of course, be scarcely hoped for at present.

The Belgian Iron Trade remains in much the same state, transactions being still somewhat restricted. There is a sufficient current of orders to keep most of the works going, and to enable them to maintain prices, but no more can be said. The blast-furnaces have their production engaged until the close of the year, but the iron works are generally scantily occupied. The great industrials are better off than the smaller ones. English casting-pig has remained at 2t. 5s. 8d. per ton; casting-pig has made 2t. 16s. per ton at Charleroi, and

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their er off 21. 7s. 2d. per ton in the Luxembourg. Hard refining pig has made 21. 4s. per ton at Charleroi; ordinary pig, 21. per ton; and mixed pig 11. 16s. per ton. In the Luxembourg, Athus-Halanzy pig has supported a quotation of 11. 19s. per ton. No. 1 iron has been maintained at 51. per ton, but superior brands have been weak at 51. 8s. per ton for No. 2, and at 51. 16s. per ton for No. 3. Girders have been maintained at 51. 4s. per ton. No. 2 plates have made 61. 16s per ton; No. 3, 71. 12s. per ton; and plates of commerce, 91. 4s. per ton. The La Louvière Ironworks and Foundry Company gave its shareholders a dividend of 9 per cent. for 1883. This dividend absorbed 36001. The La Hay Collieries Company will pay, Nov. 2, a dividend for 1882-3 of 11. 4s. per share. The Alliance Forges and Rolling Mills Company has announced a dividend of 5 per cent, for 1882-3. The Meuse Work-hops Company will pay a dividend of 5 per cent. for 1882-3 Nov. 2. The Regissa Forges and Rolling Mills Company has announced a dividend of 8 per cent.

and Rolling Mills Company has announced a dividend of 8 per cent for 1882-3.

There have been no important changes to notice in the French Iron Trade. Merchants' iron has been selling at Paris at 7l. 4s. per ton. The demand for various descriptions of products of German metallurgical industry appears to have slightly improved of late. Pig has been a little more in demand, and some contracts have recently been concluded in Westphalia. Rolled iron has still been a good deal offered, but a tendency to firaness appears to be gradually succeeding the feebleness which characterised the markets a few weeks since. The German steelworks are well employed. As an illustration of the progress which they have made during the last 10 or 12 years we may recall the fact that in 1870 Germany only exported 36,000 tons of rails, while in 1880 the Empire dispatched 250,700 tons to other countries, including the United States, Spain, Switzerland, Italy, and Belgium. The Osnabruck Steelworks Company have just taken 1100 tons of rails at 7l. 6s. per ton, while the Union of Dortmund has secured an order for 1000 tons at 7l. 5s. per ton. A contract has been given to the Hosch Steelworks Company at 7l. 6s. 5d. per ton. The Osnabruck Steelworks Company at 7l. 6s. 5d. per ton. The Osnabruck Steelworks Company have divided an order for 45,000 tons of pipes among the Ternitz, the Isenbach, the Kladno, the Witkowitz, and other works.

ELECTRIC SIGNALLING IN MINES.

ELECTRIC SIGNALLING IN MINES.

For some time past the question of rapid and effective signalling in mines has been receiving the attention of inventors, but comparatively little has yet been done, the obstacle to the adoption of the suggestions from time to time brought forward being in some cases the excessive cost, but in most the practical inutility of the inventions. Amongst recent inventions of this class is that of Mr. A. C. BAGOT, of Rugeley, which, not being patented, may perhaps obtain a trial. In the first place the apparatus, which he calls the transmittor, is placed at the bottom of the shaft, the electric currents transmitted by this instrument pass through an indicating dial or receiver on the bank or top of the shaft, and thence to the engineroom where the winding-engines are stationed. He first proceeds to describe the peculiar construction of the transmittor, which consists of an arrangement of parts designed to secure the making and breaking of a circuit by means of a rotating-wheel provided with adjustable stops, whereby a complete electrical current shall be established however rapidly the instrument may be worked. It further provides that the signal transmitted remains indicated to the sender and receiver until the next signal is transmitted, and further that wheeleft ready for use it shall be impossible for the instrument to stop in such a position as to maintain the electric current, thereby preventing waste of battery power. Secondly—The improvements relate to the improved construction of the signalling keys to the electric gongs, whereby spiral springs, to break the current automatically after the operator has completed his signal, are avoided. The improvements here referred to consist in substituting a spring of hummered brass with an intermediate carrier sprit g, so adjusted as to give a rubbing surface on the brass of a definite character or duration.

The improvements also consist in the improved construction of the

Assume a position indicated as safety.

The sixth improvement relates to the protection of engine planes

or inclines which are worked by power or not for the prevention of a common source of accidents occasioned by miners meeting the train of tubs in the workings when using such incline or plane as a road. In carrying out this part of his invention he provides an electric circuit between the stations on the incline plane or road fitted with block instruments so constructed that on closing the circuit at either end the current actuates an arrangement of lever-rods connected to end the current actuates an arrangement or lever-rous connected to the armature of an electro magnet in such a way as to indicate a position or signal of danger on both semaphore and indicating instruments in that section. The person in charge of the train resets the instruments at the point of departure to line clear or safe by a simple mechanical arrangement of stop-plugs, thus the semaphore or indicator at the end of the incline to which the train is approaching shands at danger or train on line, thereby warning miners going in method it will be understood that as the molten metal rises from the bottom apwards in the mould the gases have more freedom to expand, and to escape at the constantly enlarging surface of the mould the gases have more freedom to expand, and to escape at the constantly enlarging surface of the molten metal, in consequence of the inverted conical sides of the mould direction in which the tubs are going. And finally he employs an anemometer with a view to securing the electric transmission of the speed of the main air current of the mine. In carrying out this portion of the invention he places at the distant end of the mine a

set of rotating cups subject to the action of the air passing through the mines, the spindle or axis of the revolving cups give motion to a train of wheels which actuate through the medium of a rack and pinion, the make and brake of an electric circuit in such a manner that the circuit will be closed and again opened every time the cups have completed a given number of revolutions.

MODERN GOLD FIELDS.

pinios, the make and orake or an electric circuit in such a manner that the circuit will be closed and again opened every time the cups have completed a given number of revolutions.

MODEIN GOLD FIELDS

Scarcely two generations have passed since what are now known as the Pacific States of America were almost exclusively in the hands of the North American aborigines, yet we have now become so accustomed to regard the Pacific States and Australia as the great gold-producing countries of the world, that many hardly realise the fact that their auriferous wealth has been so recently discovered. In an interesting article in the Westminster Review, however, the whole it is leaded to the state of the s

escape of the gases and other foreign matters, which imperatively require an uninterrupted and easy escape in order to prevent gases and other impurities being bound up in the ingots.

When ingots are thus cast in the usual method of stripping them the mould is first lifted direct off the hot ingot and placed on the floor, the ingot is then raised from the casting pit to the floor, and afterwards the said mould is replaced and adjusted on the bed-plate in the casting pit ready for another casting. The improved method in the casting pit ready for another casting. The improved method suggested by Mr. D. DAVIES, of Crumlin, with a view to remove the present liability of gases and other impurities being bound up within the ingors, and to make them more solid, and consequently more valuable, is to cast them the reverse way—that is to say, with their smallest ends downward, and their larger ends uppermost. By this method if will be understood that as the molten metal rises from the method it will be understood that as the molten metal rises from the

thereof, opposite each other, which slots are fitted with moveable slide pieces, or are filled with stiff clay, loam, sand, or other suitable material, to make the surface of the mould even. When the mould is run full of molten metal, above the bottom of these slots, the said moveable slide-pieces, or earthy materials, are removed; thus leaving the said spaces open, into which the jaws or nips of the tongs are inserted to take hold of the top of the ingot for lifting it vertically out of the mould and depositing it upon the floor, and so leaving the mould, which may be keyed, bolted, or fixed by jaws to the bed-plate, adjusted in its place in the casting pit, ready for the next casting. The ingots are thus stripped and lifted on to the floor by one lift, with a crane, in place of requiring three lifts as in the ordinary way. Of course, the mould with the ingot therein, can be reversed when desired, and be stripped in the usual way.

When desirable he makes the large or upper end of the mould recessed with pockets for moveable filling pieces or clay stopping, or with a recessed bell mouth to receive a loose moveable sleve that will reduce the size of the end and admit the jaws of the tongs for taking hold of the upper end of the ingot. When it is desired to cast ingots near the same size at each end thereof, but larger in the middle or at an intermediate part of the body, so that they will slip out of the moulds, he makes the moulds for casting such ingots in two parts; the method of stripping them would be:—The upper portion of the compound mould would be first lifted off the ingot, and be put in a convenient place; then the entire ingot would be lifted vertically out of the lower portion of such mould, which latter would remain fixed in its place in the casting pit. These lower portions of the compound mould may be cast singly or in groups of any number together.



charged to revenue account in respect of expenditure on an additional supply of water, and \$1000 on the foundations of a new vater-wheel. Headdit: "Everything is going on satisfactorily in the mine," and " I am glad to state that the 70 east continues to hold out promises of a continuance of the ore in this direction."

The underground agent states as follows:—During the intervals that the engine-shaft was in fork during the month the men were engaged opening out the shaft at the \$100 plat preparatory to resuming regular sinking. Our limited supply of water coming to the pumping-wheel consequent on the exceptionally dry season has not enabled much progress to be made, so that nothing fresh is presented to remark upon. The skipway has been extended to the \$0; the pit-work and pumping arrangements generally are in good working order.

**EDEAST END advanced during past mouth 5.7 ft. The lode is mainly composed of light blue solist and hockan, without mineral of saving value. The footwall loader carred in the end is well technod and regular, such conditions are absent and irregular, from this it is probable that there is more lost to the northed the drivage which will be ascertained on further extending the drivage.

West END advanced 8 ft. This end is in a re-narkably large and powerful vein ranging from 14 to 15 ft. wide, its composition being similar to that of the eastern end, and presenting occasional spots of lead ore. A heavy stream of water continues to issue from the drivage.

**70 EAST END advanced 3 ft. This end is in a re-narkably large and powerful vein ranging from 14 to 15 ft. wide, its composition being similar to that of the eastern end, and presenting occasional spots of lead ore. A heavy stream of water continues to issue from the drivage.

**70 EAST END advanced 3 ft. This end is in a re-narkably large and powerful vein ranging from 14 to 15 ft. wide, its composition being similar to that of the eastern end. and presenting occasional spots of lead ore. A heavy stream of water continues to issue

O cast winze. The vein continues uniformly productive throughout, the drift yielding 45 cwts, per fathom of mineral estimated to produce 300 ozs. silver per ton. The men are now set to drive on the continuation of the ore ground west of the winze.

No. 5 Stope (sole of 60 cast).—Stoped 26 ft. last month. Presents no alteration in value since last advices. The deposit of mineral, referred to in last report as having been out in No. 2 winze footwall at the eastern end of this stope, now forms part of No. 2 stope back of 70 cast.

West Stope worth 2 cwts, mineral per fathom, stoped during the month 33 ft. We have holed this stope to the 60 fm. plat, thereby facilitating the extraction of the stuff.

THE 50, ESPERANZA SHAFT, sunk 6 ft.; present depth below brace in 50 fm. level 26 it. We are still troubled with a considerable feed of water in the shaft, which makes progres in sinking much slower than it otherwise would be. The vein continues small and unproductive.

CROSS-CUT SOUTH advanced 6 ft., and has traversed the bunch mentioned in last report, which, however, does not bear identity with Busto's or south vein of main lode. During the past few shifts a considerable change has occurred in the character of the ground, and strings of quartz intermixed with pyrites occur, crossing the direction of the drivage, parallel with the course of the south vein, indicating the near vicinity of the south branch.

WEST END divanced 6 ft. during the month; having shown no improvement has not been relet this month.

THE 40 WEST END, driven 11'S ft., presents precisely similar characteristics to those indicated in last report, the vein yielding considerable quantities of though on the drift, and as it appears to have a westerly dip it has been passed through on the drift, and as it appears to have a westerly dip it has been passed through on the drift, and as it appears to have a besterly dip it has been passed through on the drift, and as it appears to have a besterly dip it has been decided to stope the sole of the drift and

Date.	Mines.	LEAD			ES.	Purchasers.
Oct. 20 - Ce 22-1)	ntral Foxdale Dresby Mount	90 ain 16	£11	9 7	6	Weston, Son, and Co. Walker, Parker, & Co. Quirk, Barton, and Co. Nevill, Druce, and Co.

THE MINERAL RESOURCES OF NEW ZEALAND By H. BRAMALL, M.Inst.C.E., Mining Engineer. London: HAMILTON, ADAMS, and Co.

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20 in. circular up to 54 in. by 60 in. for lead and silver smelting; and special High Jacket Furnaces for copper ores.

Engines of any size, plain slide valve, Corliss, compound Corliss, Boilers, all sizes. Leaching Mills, Hallidie Wire Rope Tramways. Comet Crusher, with capacity of 12 to 20 tons per hour. White, Howell. Bruckner, and Stetefeldt Roasting Furnaces, &c.

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Mines.		Tons.	P	rice.		Mines.		Pri	
Devon Gree				12	0	South Caradon			
ditto				10	0	ditto			1
ditto	********		. 1	12	0		12		7
ditto		.107	. 1	8	6	Gunnislake (Clitt			14
ditto	***********			10	0	ditto	85		11
ditto		. 89	. 1	3	0	Glasgow Caradon	66	. 4	8
ditto	***********	. 74	. 1	1	6	ditto	64	. 3	5
ditto	***********	50	. 6	15	6	Bedford United	85	. 3 1	12
ditto	***********	. 42	. 4	14	6		35		7
ditto	**********	. 33	. 5	5	6	Holmbush	64	. 2	1
Wheal Creb	or	. 90	. 4	11	6		41	. 2	1
ditto	***********	. 89	. 2	9	6	ditto	3		9
ditto	**********	. 88	. 3	10	6	ditto	2		9
ditto		. 87	. 4	6	0	Marke Valley	45	. 3	8
ditto	***********	. 81	. 4	11	6	ditto	35		0
South Devo	n United	.118 1	. 1	8	0	ditto	20		17
ditto	***********	. 89	. 1	8	0	Emily	22	. 5	7
ditto	***********	. 44	. 3	3	0	ditto	18	. 2	2
ditto	***********	. 9	. 6	6	0	Devon Friendship	19	. 5	5
South Cara	ion	. 62	. 3	10	6	ditto	8		17
ditto	*********	. 55	. 3	2	6	Mid-Devon	15	. 31	4
			TO'	TAL	P	RODUCE.			
Devon Grea	t Con. 83	6 £1	1729	11	0	Bedford United .		2423	5
Wheal Creb			1686	18	0	Holmbush	110	265 1	
Bouth Devo	n Uni. 26	0	435	2	0	Marke Valley	100	317 1	.0
Bouth Carac	lon 22	0	803	12	0	Emily	40	155 1	9
Gunnislake	(Clit.) 17	6	994	17	0	Devon Friendship	o. 27	146 1	
Glasgow Ca			500	0	0	Mid-Devon	15	55 1	.7
					_				
Average sta	ndard	***********	E	97 1	•	0 Average produc	0	*** ***	

Glasgow Caradon, 130 500 0 0 Mid-Devon 15 55 1
Change w Caracon. 100 mm. 000 0 0 1 Main 2000 mm. 100 mm.
Average standard £ 97 14 0 Average produce
Average price per ton
Quantity of ore 2469 Quantity of fine copper, 146 tons 18 c
Amount of money £ 7564 16 6
LAST SALE.—Average standard, £ 93 2 0 Average produce
Standard of corresponding sale last month, £ 97 14 0 Produce, 6%
COMPLETED BY WHOM SHE OPEN WERE BURGHASER
COMPANIES BY WHOM THE ORES WERE PURCHASED.
Names. Tons, Amount,
Vivian and Sons £2021 6 9
P. Grenfell and Sons 537 1838 13 0

Tons,				
6171/2	£2021	6	9	
537	1838	13	0	
514	965	8	0	
615	2103	1	6	
18514	836	7	3	
2469 4	7564	16	6	
	, ,,,,,			
	514 615	617½ £2021 537 1638 514 965 615 2103 185½ 636	617½ £2021 6 537 1638 13 514 965 8 615 2103 1 185½ 636 7	17% £2021 6 9 537 1838 13 0 0 514 965 8 0 615 2103 1 6 185½ 536 7 3 2469 £7564 16 6

NO SALE on Thursday last, Oct. 25.

Copper Ores for sale on Thursday next, at Tabb's Hotel, Redruth,—Mines a reels.—Mellanear 613—Levant 459—Tincroft 82—East Wheal Uny 60—W 50n 50—South Tolcarne 42—Carn Brea 35—Wheal Jewell 24—Botallack 10

MINERAL RESOURCES OF SPAIN-PROVINCE OF LEON.-An inte-MINERAL RESOURCES OF SPAIN—PROVINCE OF LEON.—An interesting geological and mining review and catalogue of the minerals, &c., of the Province of Leon has just been issued and supplies such information as cannot fail to be of service to those engaged in the development of the mineral resources of the province. The volume—Reseña Geológico-Minera y Catalogo de Minerales, Rocas, etc., de la Provincia de Leon—is prepared by the Engineer-in-chief, Don José Maria Soler (Leon: Imprenta de la Diputacion Provincial), and gives evidence of the author having performed an enormous amount of useful research in collecting the material and given his reader the full benefit of his extensive scientific knowledge. The value of the full benefit of his extensive scientific knowledge. the volume can scarcely be over-estimated.

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Offers will be received for both together, or for the Machinery alone, the Vendor paying all Rents, Royalties, and outgoings to 1st November, 1833.

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The mines have yielded a large quantity of lead ore, and are in a position to make immediate returns. They adjoin a portion of Mr. Beaumont's famous mining properties in Rockhope.

Full particulars, with Inventory of Machinery, &c., can be seen, and Tenders to be delivered on or before Tuesday, the 30th instant, at the office of the Liquidator, 8, Austin Friars, London.

The Liquidator does not bind himself to accept the highest or any tender.

Dated 18th October, 1883.

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FOR SALE, BY PUBLIC AUCTION, at the Mines, on Monday the 29th day of October, 1883, at Three o'clock P.M., in One Lot, as a going concern, all the

SETTS, MACHINERY, PLANT, AND MATERIALS

Of the St. Aubyn United Mines, situated in the parishes of Redruth and Gwennap, in the county of Cornwall.

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The MACHINERY and PLANT are in efficient working order, having ONE 60 in. cylinder PUMPING ENGINE, and all the necessary appliances for developing the Mines, which are about 90 fathoms deep.

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ing silver and rich veins of copper and iron.
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PORTABLE STEAM ENGINE FOR SALE, with two 9½ inch
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